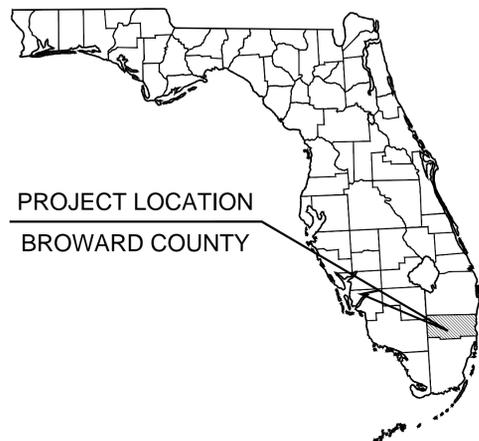


OB JOHNSON PARK

FOR

CITY OF HALLANDALE BEACH



PROJECT LOCATION
BROWARD COUNTY

LOCATION
900 NW 8TH AVENUE
HALLANDALE BEACH, FL 33009

PROJECT TEAM

CLIENT
CITY OF HALLANDALE BEACH
400 S. FEDERAL HIGHWAY
HALLANDALE BEACH, FL 33009
(954) 457-1300
CONTACT: SARITA SHAMAH, P.E.

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
600 NORTH PINE ISLAND RD., SUITE 450
PLANTATION, FLORIDA 33324
(954) 535-5100
CONTACT: STEFANO VIOLA, P.E.

SURVEYOR
GIBBS LAND SURVEYORS
2131 HOLLYWOOD BLVD, SUITE 204
HOLLYWOOD, FL 33020
(954) 923-7666
CONTACT: STEPHEN K. SEELEY

LIST OF CONTACTS

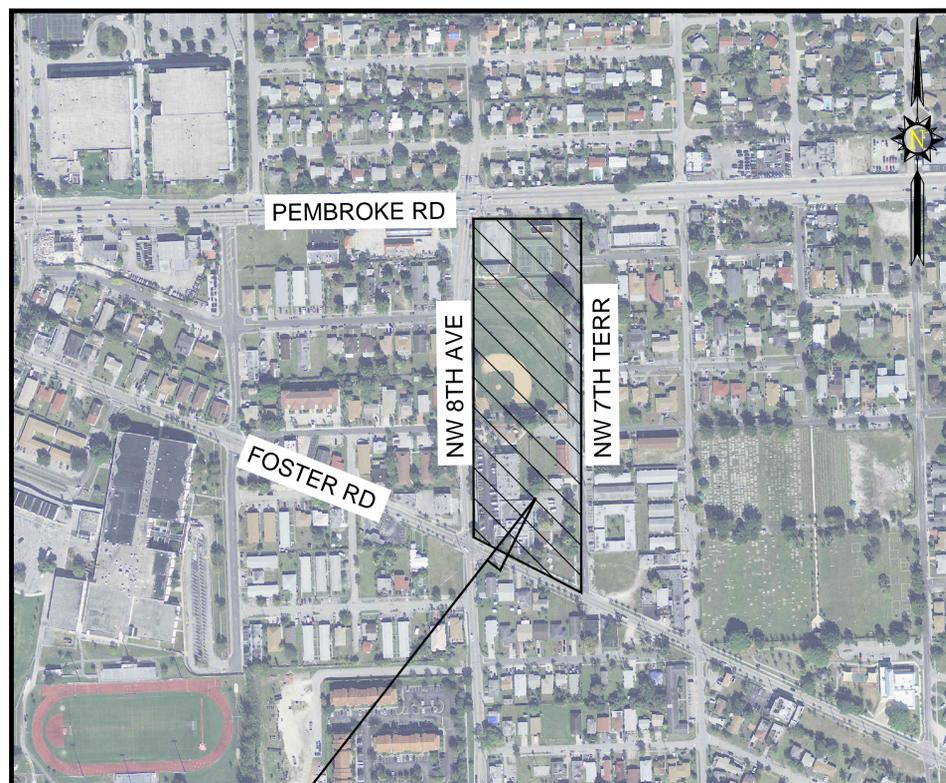
STORM WATER
CITY OF HALLANDALE BEACH
PUBLIC WORKS
630 NW 2ND STREET
HALLANDALE BEACH, FL 33009
(954) 457-1623

ELECTRIC PROVIDER
FLORIDA POWER & LIGHT COMPANY
(954) 442-6389
CONTACT: GRANT TYLER

CABLE PROVIDER
COMCAST CABLE
(954) 954-410-2054
CONTACT: CHUCK HUSTON

BROWARD COUNTY SWM
1 NORTH UNIVERSITY DR.
PLANTATION, FL 33324
(954) 519-1483

TELEPHONE PROVIDER
AT&T
(954) 476-2734
CONTACT: EDUARDO IBARRA



PROJECT LOCATION

VICINITY MAP

1"=250'

PREPARED BY

Kimley»Horn

2014 KIMLEY-HORN AND ASSOCIATES, INC.
600 N. PINE ISLAND RD., SUITE 450, PLANTATION, FL 33309
PHONE (954) 535-5100
WWW.KIMLEY-HORN.COM CA 00000696

SHEET INDEX	
SHEET NO.	SHEET TITLE
CS	COVER SHEET
CIVIL ENGINEERING PLANS	
C100.1	GENERAL NOTES
C100.2	MASTER SITE PLAN
C100.3	SITE PLAN
C100.4	SITE PLAN
C101.1	DEMOLITION PLAN
C101.2	DEMOLITION PLAN
C200.1	EROSION CONTROL PLAN
C200.2	EROSION CONTROL PLAN
C201.1	EROSION CONTROL DETAILS
C300.1	PAVING GRADING & DRAINAGE PLAN
C300.2	PAVING GRADING & DRAINAGE PLAN
C301.1	PAVING GRADING AND DRAINAGE DETAILS
C400.1	WATER AND SEWER PLAN
C400.2	WATER AND SEWER PLAN
C401.1	WATER AND SEWER DETAILS
C401.2	WATER AND SEWER DETAILS
C500.1	PAVEMENT MARKING & SIGNAGE
C501.1	PAVEMENT MARKING & SIGNAGE DETAILS
C502.1	TENNIS COURT DETAIL
C600.1	MISCELLANEOUS DETAILS
C600.2	MISCELLANEOUS DETAILS
C700.1	FIRE LANE PLAN
C800.1	PHOTOMETRICS PLAN
C800.2	PHOTOMETRICS PLAN
C900.1	CPTED PLAN
C900.2	CPTED PLAN
LANDSCAPE DESIGN PLANS	
L000.1	TREE DISPOSITION PLAN
L000.2	TREE DISPOSITION PLAN
L100.1	LANDSCAPE PLAN
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L110.1	LANDSCAPE DETAILS
L110.2	LANDSCAPE NOTES
L200.1	HARDSCAPE PLAN
L210.1	HARDSCAPE DETAILS
L210.2	HARDSCAPE DETAILS
L210.3	HARDSCAPE DETAILS
L300.1	IRRIGATION PLAN
L300.2	IRRIGATION PLAN
L310.1	IRRIGATION DETAILS
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L310.3	IRRIGATION NOTES
ARCHITECTURAL PLANS	
R-1	RENDERING: FRONT ELEVATION - SOUTH
R-2	RENDERING: REAR ELEVATION - NORTH
A-1	MASTER FLOOR PLAN
A-2	PARTIAL FLOOR PLAN
A-3	PARTIAL FLOOR PLAN
A-4	SIDE ELEVATION - WEST
A-5	SIDE ELEVATION - EAST
A-6	MASTER CEILING PLAN
A-7	PARTIAL CEILING PLAN
A-8	PARTIAL CEILING PLAN
A-9	MASTER ROOF PLAN
A-10	PARTIAL ROOF PLAN
A-11	PARTIAL ROOF PLAN

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA

ALL TRAFFIC CONTROL DEVICES MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE REPLACED USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Floriana, Carlos Sheet: 043645000 - Layout: C100.2 MASTER SITE PLAN - March 03, 2015 09:51:53am. K:\11\civil\043 jobs\043645000-ob johnson park\CADD\plan sheets\C100.2 MASTER SITE PLAN.dwg
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PROJECT DATA

Name of Owner	CITY OF HALLENDALE BEACH
Project Address	800 N.W. 8th AVENUE
KHA Project No.	043645000
Name of Development	O.B. JOHNSON PARK
Prop. Use	CITY PARK
Zoning District	OS - RECREATION/OPEN SPACE
Land Use	100 - REGIONAL ACTIVITY CENTER
Section, Township, Range	SECTION 21, TOWNSHIP 51, RANGE 42
No. of stories/ floors	1 Story
FEMA Flood Zone	0.2 PCT Annual Chance

EXISTING SITE DATA

Total Site Area	260,468.17 s.f. (5.98 acres)
Existing Building Area	22,629.02 s.f.
Existing Parking Spaces	65 spaces*
Parking spaces required based on parking study	70 spaces

*INCLUDING 2-HC SPACES

PARKING CALCULATIONS

Gross Floor Area (Rec Center)	41,984 s.f.
Parking Required for Building	41,984 s.f. @ 1/400 s.f. = 105 spaces
Parking Required for Courts	2 Courts @ 2 per Court = 4 spaces
Multipurpose Field	16 per Field = 16 spaces
Playground	= 4 spaces
Total Required	= 129 spaces
Prop. Parking Spaces	114 Provided (Including 6 proposed HC parking spaces stated below)
Prop. Offsite Parallel Parking	18 Provided (Additional Information)
Prop. HC Spaces	6 Provided (5 Required)

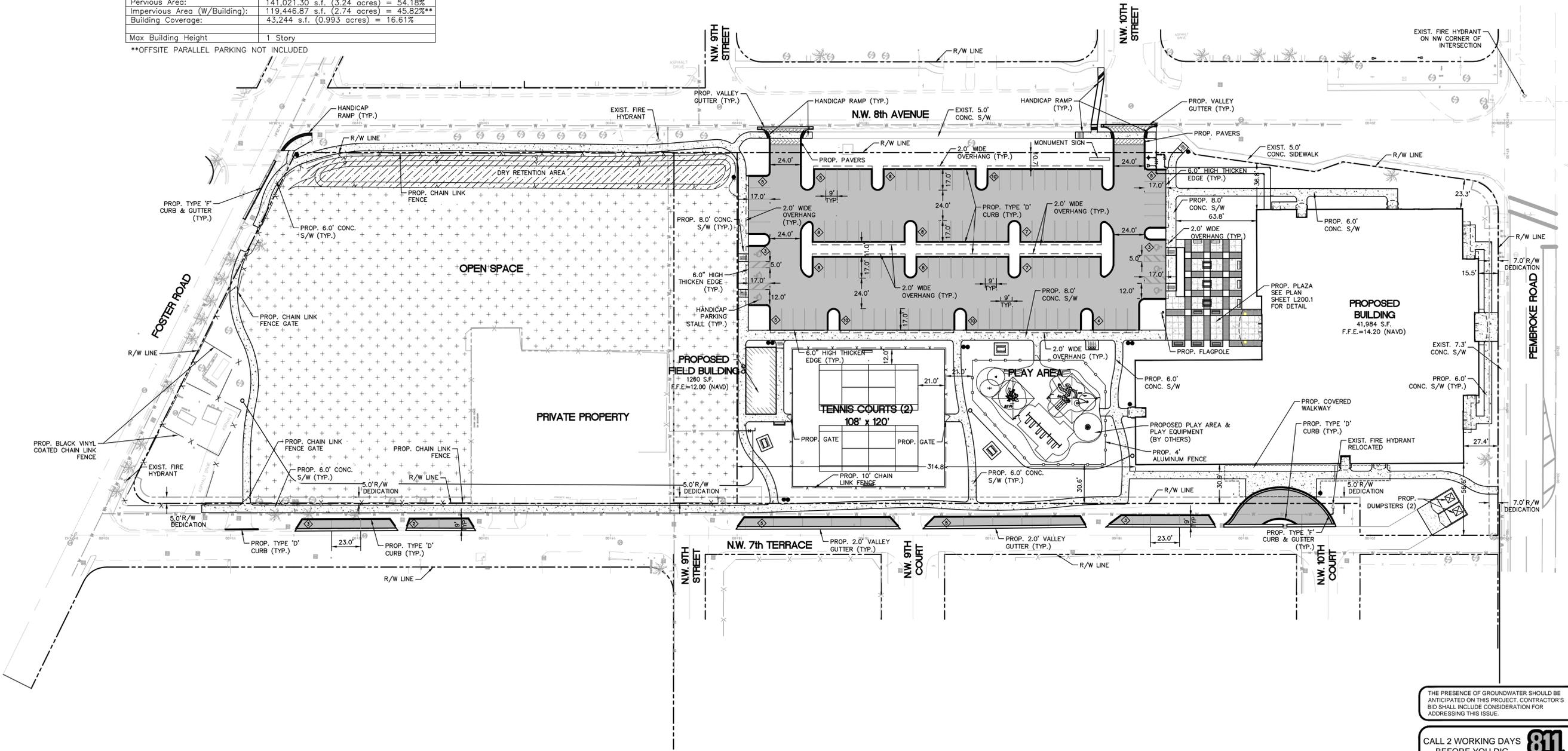
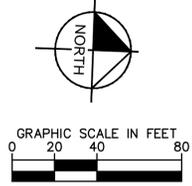
PROP. CONDITIONS

Site Area (including right-of-way)	260,468.17 s.f. (5.98 acres) = 100.0%
Pervious Area:	141,021.30 s.f. (3.24 acres) = 54.18%
Impervious Area (W/Building):	119,446.87 s.f. (2.74 acres) = 45.82%**
Building Coverage:	43,244 s.f. (0.993 acres) = 16.61%
Max Building Height	1 Story

**OFFSITE PARALLEL PARKING NOT INCLUDED

LEGEND

- PROPOSED ASPHALT PAVEMENT, LIMEROCK & SUBGRADE
- PROPOSED CONCRETE
- PROPOSED BERMUDA GRASS
- DRY RETENTION AREA
- PROPOSED TRASH RECEPTACLE
- PROPOSED WATER FOUNTAIN
- PROPOSED BICYCLE RACK
- PROPOSED BENCH
- PROPOSED PICNIC TABLE
- PROPOSED BLEACHER
- PROPOSED SOCCER FIELD LIGHTS
- PROPOSED ALUMINUM FENCE
- PROPOSED CHAIN-LINK FENCE



THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

<h1 style="margin: 0;">Kimley»Horn</h1> <p style="font-size: 8px; margin: 0;"> LICENSED PROFESSIONAL STEFANO F. VIOLA 600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 0000696 </p>	<p style="font-size: 8px; margin: 0;"> KHA PROJECT 043645000 DATE 08/04/2014 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY SFV </p>
<h2 style="margin: 0;">MASTER SITE PLAN</h2>	
<h3 style="margin: 0;">OB JOHNSON PARK</h3> <p style="font-size: 8px; margin: 0;"> PREPARED FOR CITY OF HALLENDALE BEACH BROWARD COUNTY FLORIDA </p>	<p style="font-size: 8px; margin: 0;"> SHEET NUMBER C100.2 </p>

Plotted By: Florian, Carlos Sheet: 043645000 Layout: C100.3 SITE PLAN March 03, 2015 09:52:12am K:\111-civil\043 jba\043645000-eb johnson park\CA00\plan\streets\C100.3 SITE PLAN.dwg
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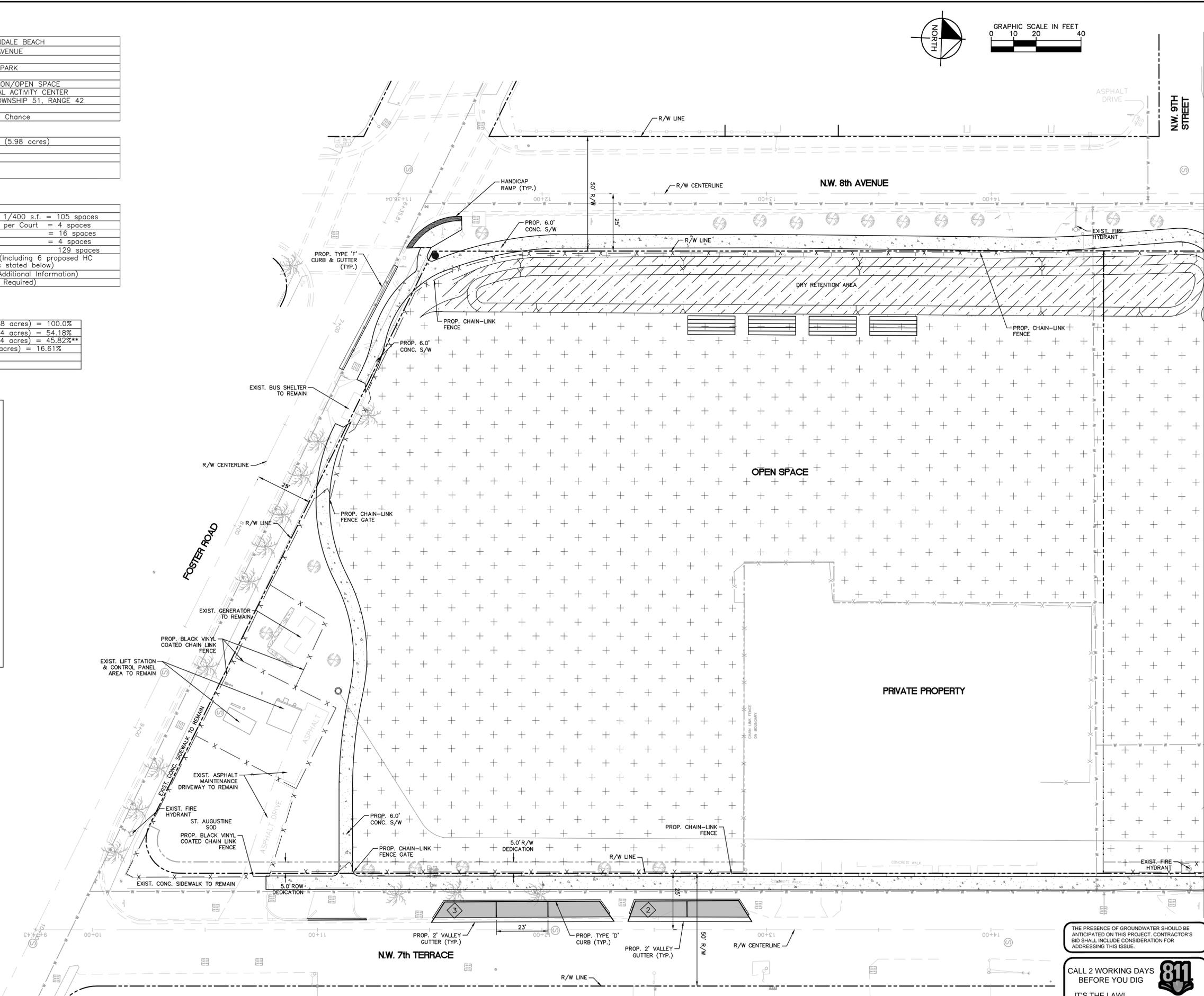
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LEGEND

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	PROPOSED CONCRETE
	PROPOSED PAVERS
	PROPOSED BERMUDA GRASS
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	PROPOSED TRASH RECEPTACLE
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	PROPOSED BENCH
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	PROPOSED BLEACHER
	PROPOSED SOCCER FIELD LIGHTS
	PROPOSED ALUMINUM FENCE
	PROPOSED CHAIN-LINK FENCE



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KIMLEY-HORN	
LISCENSED PROFESSIONAL	
KHA PROJECT 043645000	
DATE 08/04/2014	SCALE AS SHOWN
DESIGNED BY STEFANO F. VIOLA	FLORIDA LICENSE NUMBER 74655
DRAWN BY	CHECKED BY SFV
DATE 03/03/15	
WWW.KIMLEY-HORN.COM CA 0000696	
600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324	
PHONE: 954-535-5100 FAX: 954-739-2247	
OB JOHNSON PARK PREPARED FOR CITY OF HALLENDALE BEACH FLORIDA	
SHEET NUMBER C100.3	
MATCHLINE - SEE SHEET C100.4	

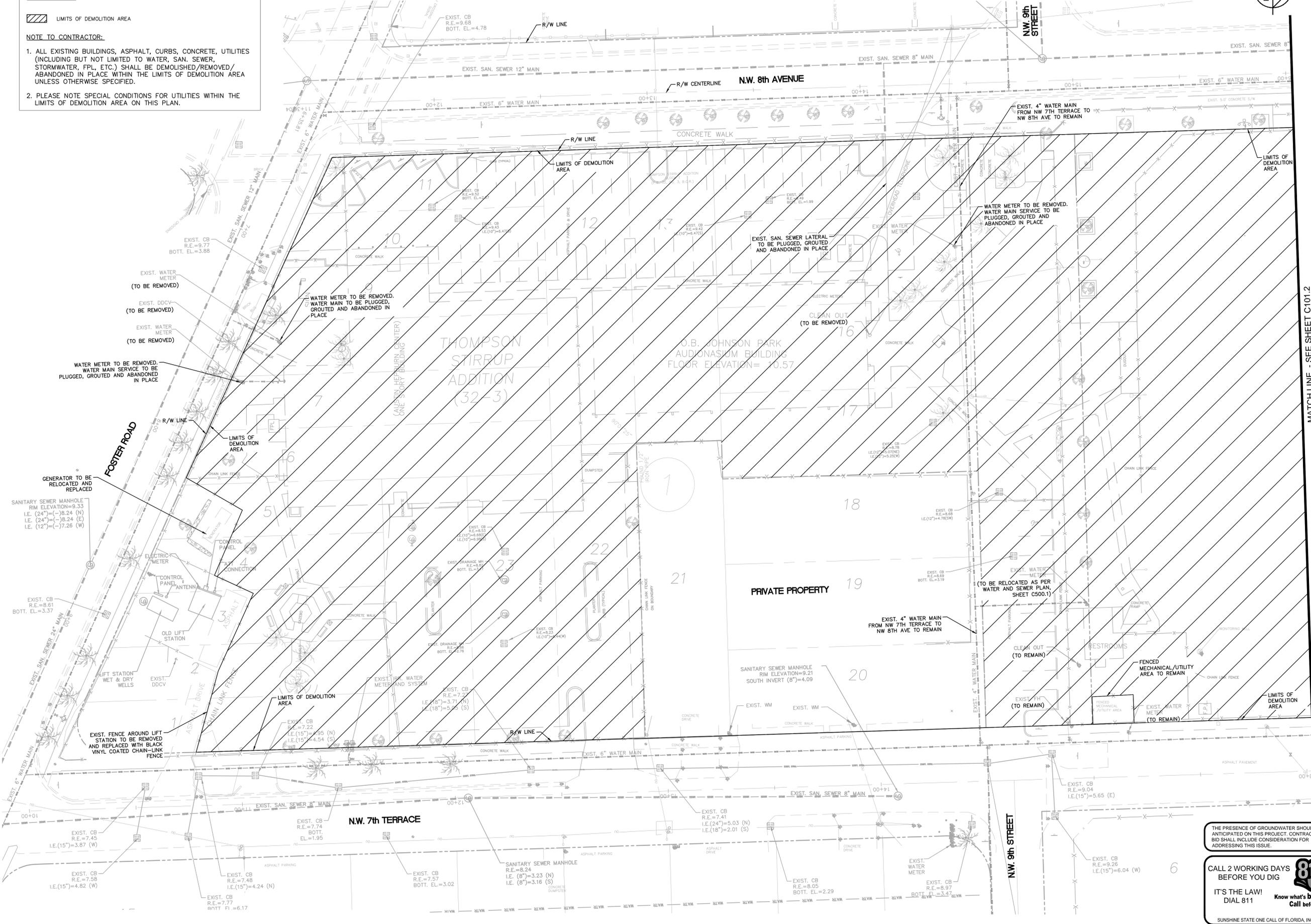
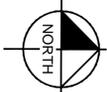
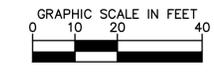
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LEGEND

LIMITS OF DEMOLITION AREA

NOTE TO CONTRACTOR:

1. ALL EXISTING BUILDINGS, ASPHALT, CURBS, CONCRETE, UTILITIES (INCLUDING BUT NOT LIMITED TO WATER, SAN. SEWER, STORMWATER, FPL, ETC.) SHALL BE DEMOLISHED/REMOVED/ABANDONED IN PLACE WITHIN THE LIMITS OF DEMOLITION AREA UNLESS OTHERWISE SPECIFIED.
2. PLEASE NOTE SPECIAL CONDITIONS FOR UTILITIES WITHIN THE LIMITS OF DEMOLITION AREA ON THIS PLAN.



MATCH LINE - SEE SHEET C101.2

No.	REVISIONS	DATE	BY

Kimley»Horn
 © 2010 KIMLEY-HORN AND ASSOCIATES, INC.
 600 NORTH WILSON ROAD, SUITE 400, FT. LAUDERDALE, FL 33324
 PHONE: (954) 535-5151 FAX: (954) 739-2247
 WWW.KIMLEY-HORN.COM CA 0000696

LICENSED PROFESSIONAL
 STEFANO F. VIOLA
 FLORIDA LICENSE NUMBER 74655
 DATE: 05/12/15
 CHECKED BY: SFV

DEMOLITION PLAN

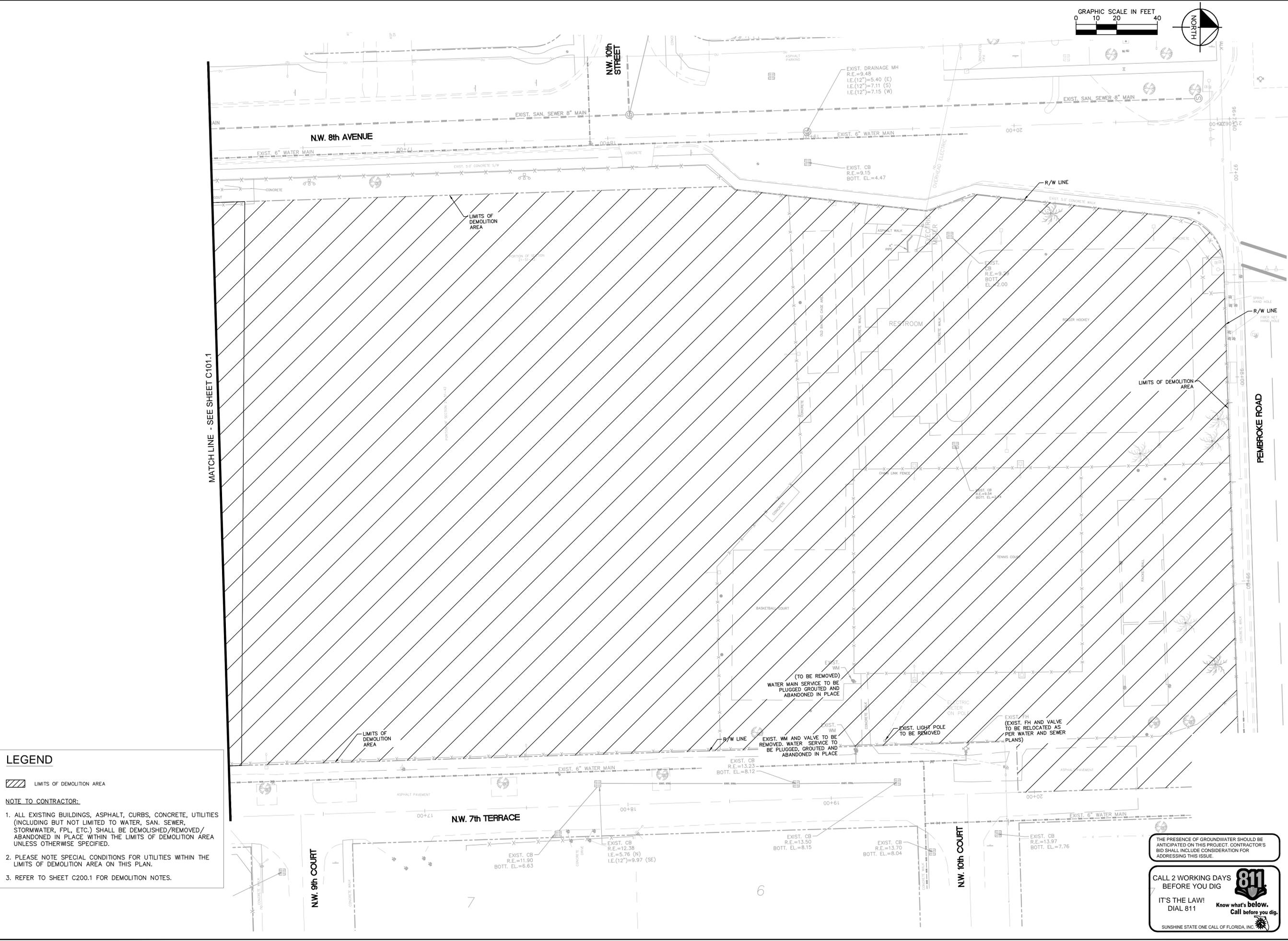
OB JOHNSON PARK
 PREPARED FOR
CITY OF HALLANDALE BEACH
 FLORIDA
 BROWARD COUNTY

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SHEET NUMBER
C101.1

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LEGEND

LIMITS OF DEMOLITION AREA

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 - PLEASE NOTE SPECIAL CONDITIONS FOR UTILITIES WITHIN THE LIMITS OF DEMOLITION AREA ON THIS PLAN.
 - REFER TO SHEET C200.1 FOR DEMOLITION NOTES.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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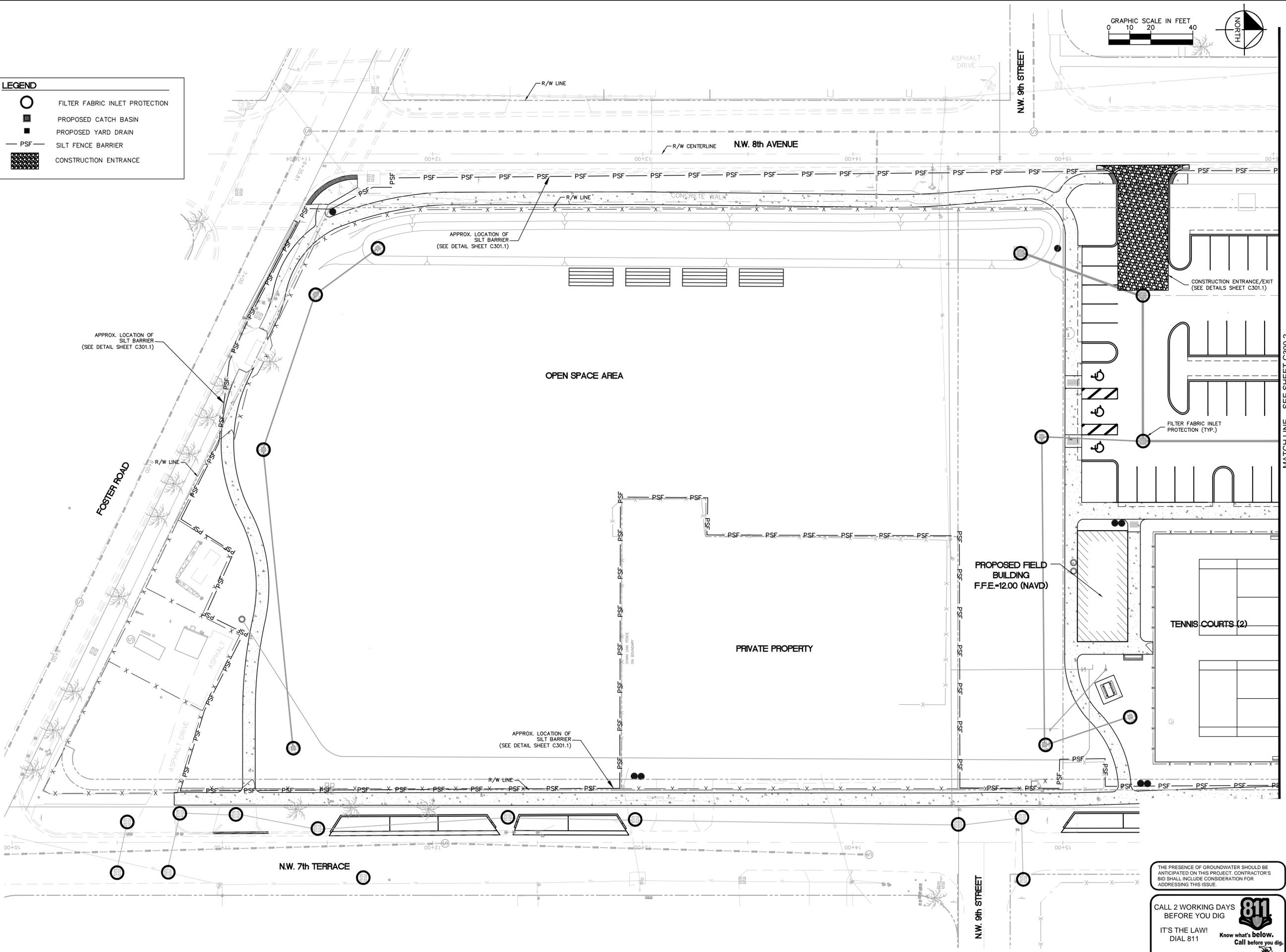
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley»Horn © 2010 KIMLEY-HORN AND ASSOCIATES, INC. 600 NORTH WILSON ROAD, SUITE 400, FT. LAUDERDALE, FL 33324 PHONE: (954) 535-5100 FAX: (954) 739-2147 WWW.KIMLEY-HORN.COM CA 0000696	LICENSED PROFESSIONAL STEFANO F. VIOLA FLORIDA LICENSE NUMBER 74655	KHA PROJECT 04-3645000 DATE 06/04/2014 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY SFV DATE 05/12/15	DEMOLITION PLAN FLORIDA	OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH BROWARD COUNTY	SHEET NUMBER C101.2
	REVISIONS No. DATE	DATE BT	DATE BT	DATE BT	DATE BT

Plotted By: Eriqon, Carlos - Sheet: 043645000 - Layout: C200.1 - EROSION CONTROL PLAN - February 12, 2015 - 07:49:35pm - k:\u\cid\043_1ba\043645000-ob-johnson_park\CADD\plansheets\C200.1_45000_EROSION CONTROL PLAN.dwg
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LEGEND

-  FILTER FABRIC INLET PROTECTION
-  PROPOSED CATCH BASIN
-  PROPOSED YARD DRAIN
-  SILT FENCE BARRIER (PSF)
-  CONSTRUCTION ENTRANCE



THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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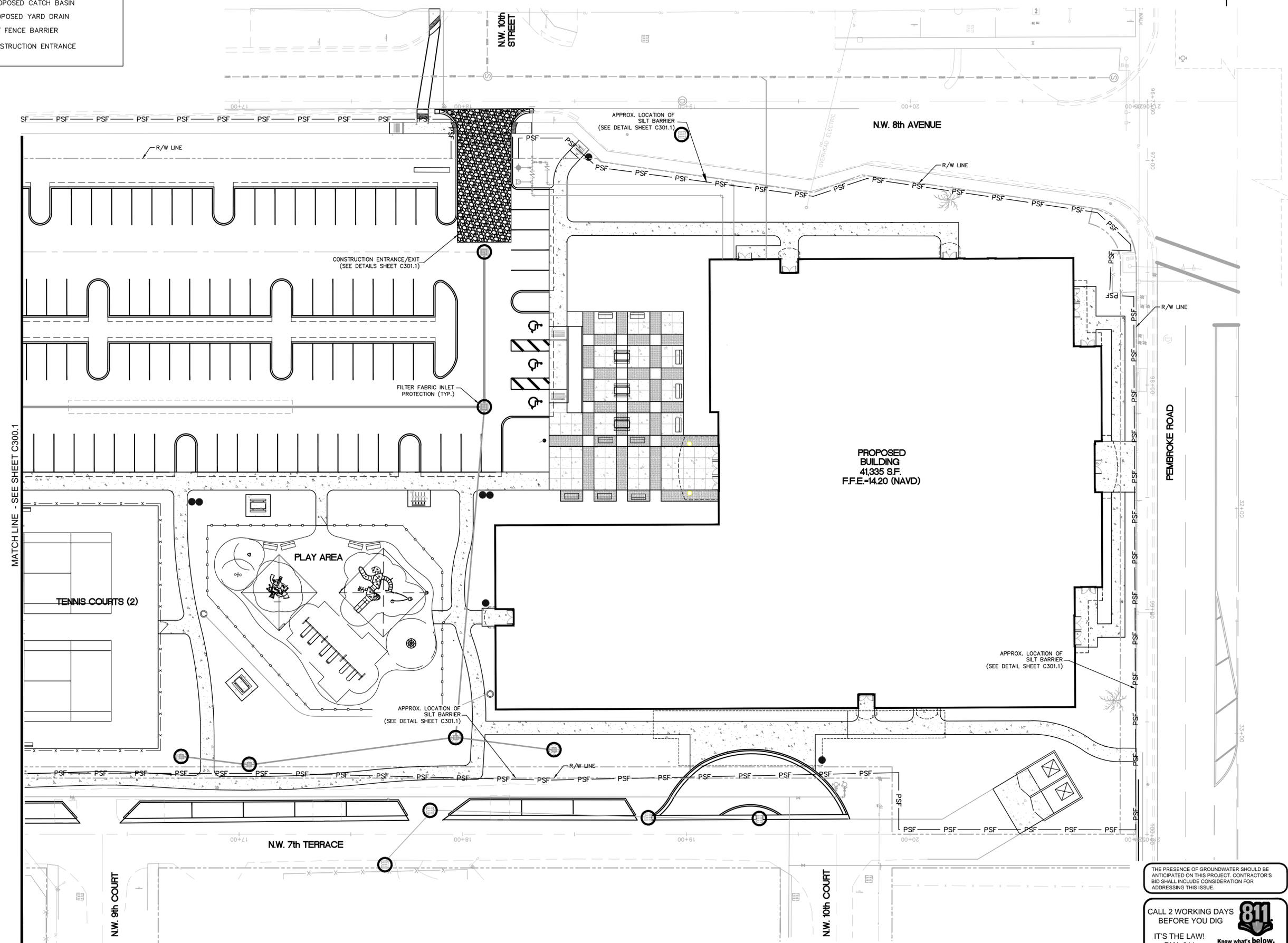
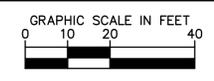
MATCH LINE - SEE SHEET C300.2

<p>OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH</p>	<p>EROSION CONTROL PLAN</p>	<p>FLORIDA BROWARD COUNTY</p>						
<p>Kimley»Horn</p> <p>© 2014 KIMLEY-HORN AND ASSOCIATES, INC. 600 NORTH WILSON ROAD, SUITE 200, BOCA RATON, FL 33324 PHONE: (561) 535-5100 FAX: (561) 739-2147 WWW.KIMLEY-HORN.COM CA 0000696</p>								
<p>KHA PROJECT 04-3645000</p> <p>DATE 06/04/2014</p> <p>SCALE AS SHOWN</p> <p>DESIGNED BY STEFANO F. VIOLA</p> <p>DRAWN BY 74655</p> <p>CHECKED BY SFV</p> <p>DATE 05/12/15</p>	<p>LICENSED PROFESSIONAL</p> <p>STEFANO F. VIOLA</p> <p>FLORIDA LICENSE NUMBER 74655</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	DATE	BY			
No.	DATE	BY						
<p>SHEET NUMBER C200.1</p>								

Plotted By: Ericson, Capita - Sheet Set: 043645000 - Layout: C200.2 - EROSION CONTROL PLAN - February 12, 2015 - 07:49:37am - k:\m_e\043645000-eb_johnson_npk\CADD\caddsheet\C200.1_45000_EROSION CONTROL PLAN.dwg
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LEGEND

-  FILTER FABRIC INLET PROTECTION
-  PROPOSED CATCH BASIN
-  PROPOSED YARD DRAIN
-  SILT FENCE BARRIER
-  CONSTRUCTION ENTRANCE



MATCH LINE - SEE SHEET C300.1

<p>OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH</p>	<p>EROSION CONTROL PLAN</p>	<p>FLORIDA BROWARD COUNTY</p>						
<p>SHEET NUMBER C200.2</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	DATE	BY				<p>  © 2014 KIMLEY-HORN AND ASSOCIATES, INC. 600 NORTH W. STATE ROAD, SUITE 400, FT. LAUDERDALE, FL 33324 PHONE: (954) 535-5151 FAX: (954) 739-2147 WWW.KIMLEY-HORN.COM CA 0000696 </p>
No.	DATE	BY						
<p> KHA PROJECT: 043645000 DATE: 06/04/2014 SCALE: AS SHOWN DESIGNED BY: STEFANO F. VIOLA DRAWN BY: FLORIDA LICENSE NUMBER 74655 CHECKED BY: SFV DATE: 02/12/15 </p>	<p>LICENSED PROFESSIONAL</p>							

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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Plotted By: Florida, Capida - Sheet: Sat: 04/36/45000 - Layout: C300.1 - PAVING, GRADING, & DRAINAGE PLAN - February 12, 2015, 02:50:07am - K:\141_civil\043_sba\043645000-cb_johnson_park\CADD\plansheets\C300.1_45000_PAVING, GRADING, & DRAINAGE PLAN.dwg
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LEGEND

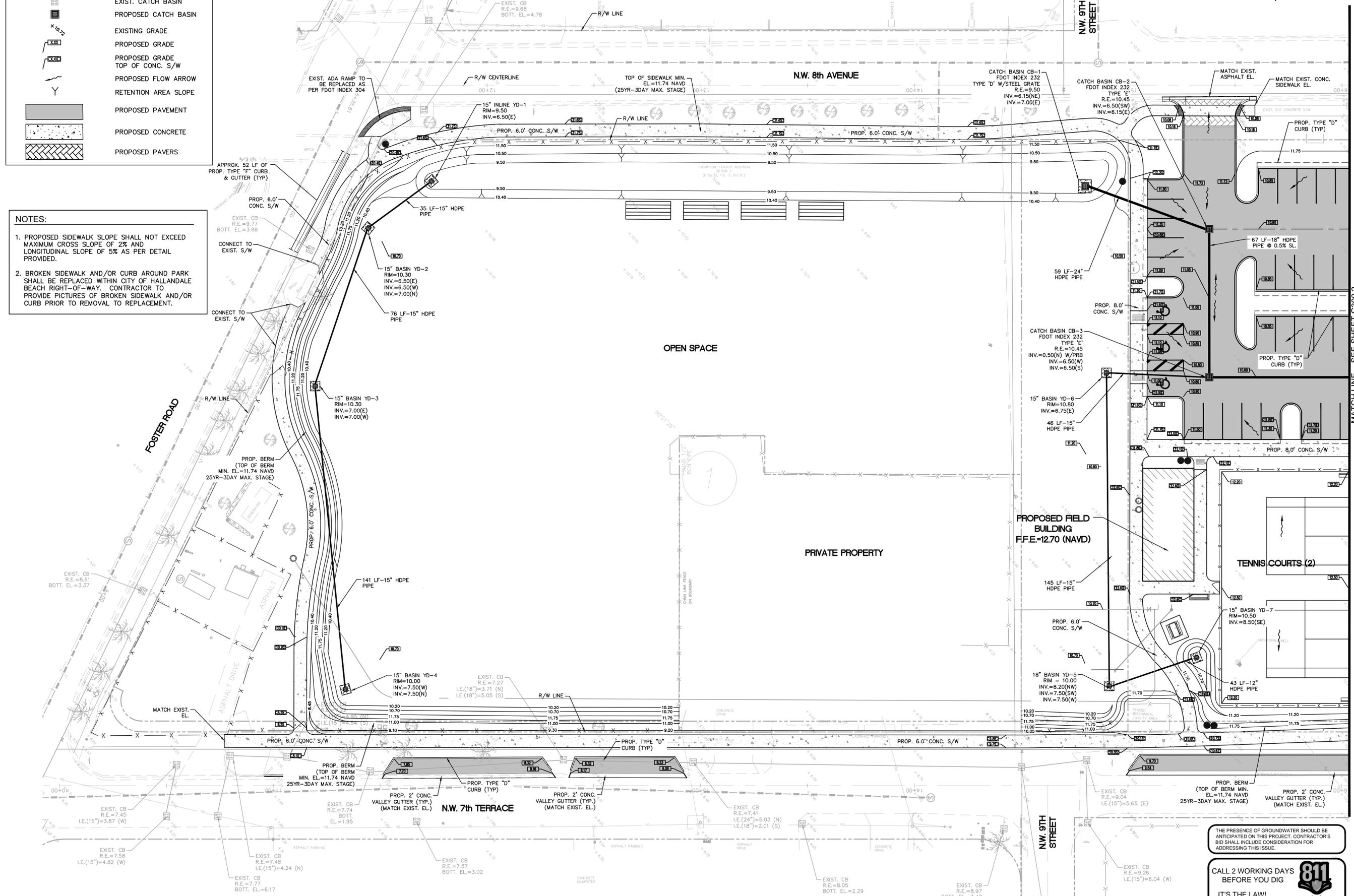
- PROPERTY LINE
- PROPOSED STORM DRAINAGE
- EXIST. CATCH BASIN
- PROPOSED CATCH BASIN
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED GRADE TOP OF CONC. S/W
- PROPOSED FLOW ARROW
- RETENTION AREA SLOPE
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- PROPOSED PAVERS

NOTES:

- PROPOSED SIDEWALK SLOPE SHALL NOT EXCEED MAXIMUM CROSS SLOPE OF 2% AND LONGITUDINAL SLOPE OF 5% AS PER DETAIL PROVIDED.
- BROKEN SIDEWALK AND/OR CURB AROUND PARK SHALL BE REPLACED WITHIN CITY OF HALLANDALE BEACH RIGHT-OF-WAY. CONTRACTOR TO PROVIDE PICTURES OF BROKEN SIDEWALK AND/OR CURB PRIOR TO REMOVAL TO REPLACEMENT.

GRAPHIC SCALE IN FEET
 0 10 20 40

NORTH



ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. BENCHMARK NGS MONUMENT PID AD2500, ELEVATION=13.44, NAVD88 AT NORTHEAST CORNER OF CITY HALL BUILDING, CITY OF HOLLYWOOD. TO CONVERT THE ELEVATIONS HEREON TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 ADD 1.51 FEET.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 2 WORKING DAYS BEFORE YOU DIG

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

OB JOHNSON PARK
 PREPARED FOR
CITY OF HALLANDALE BEACH
 FLORIDA

PAVING GRADING & DRAINAGE PLAN

Kimley»Horn
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 600 NORTH WILCOX ROAD, SUITE 400, FORT LAUDERDALE, FL 33324
 PHONE: (954) 535-5100 FAX: (954) 739-2147
 WWW.KIMLEY-HORN.COM CA 00006696

DESIGNED BY: STEFANO F. VIOLA
 FLORIDA LICENSE NUMBER: 74655

CHECKED BY: SFV DATE: 02/12/15

DATE: 06/04/2014
 SCALE: AS SHOWN

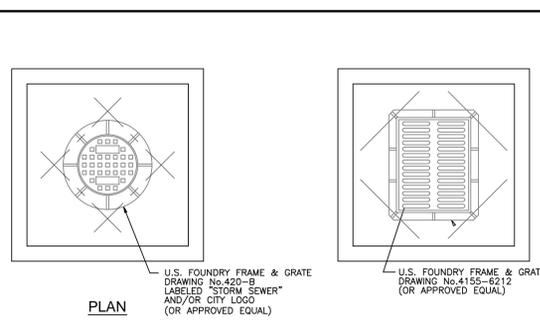
PROJECT: KHA PROJECT 04-3645000
 SHEET: C300.1

REVISIONS

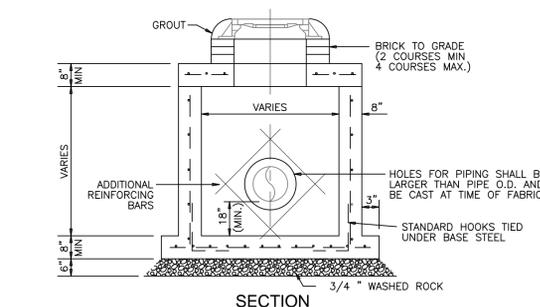
NO. DATE DESCRIPTION

SHEET NUMBER
C300.1

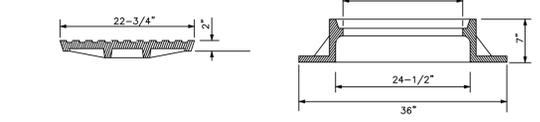
Picked By Florida Capitol Sheet Set: 043645000 - PAVING, GRADING AND DRAINAGE DETAILS - February 12, 2015, 07:50:22pm - k:\141\civil\043 - fbs\043645000-ob-johnson_park\CADD\sheetsets\C301.1_45000_PAVING, GRADING AND DRAINAGE DETAILS.dwg
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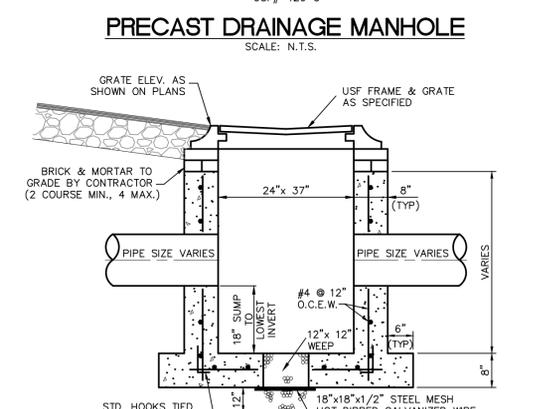
U.S. FOUNDRY FRAME & GRATE DRAWING No. 420-B Labeled Storm Sewer AND/OR CITY LOGO (OR APPROVED EQUAL)



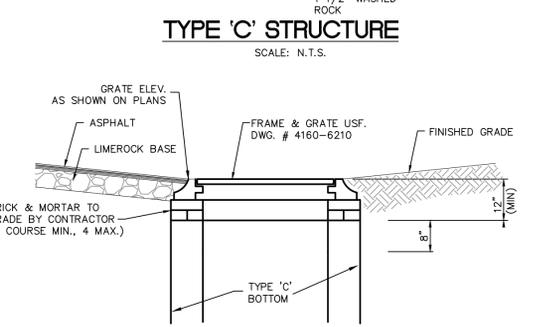
MANHOLE FRAME & LID US# 420 C SCALE: N.T.S.



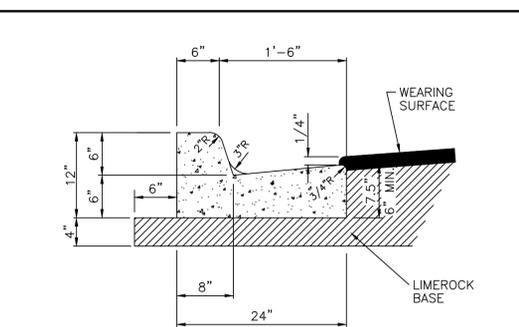
PRECAST DRAINAGE MANHOLE SCALE: N.T.S.



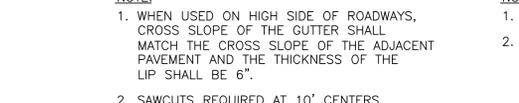
TYPE 'C' STRUCTURE SCALE: N.T.S.



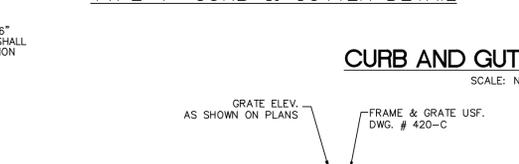
CATCH BASIN TOP DETAIL SCALE: N.T.S.



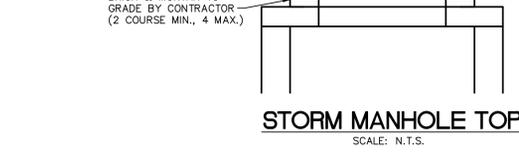
TYPE 'D' CURB



TYPE 'F' CURB & GUTTER DETAIL

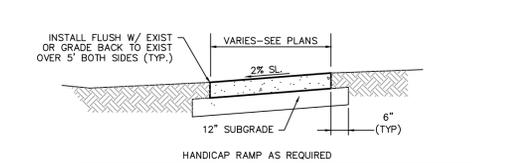
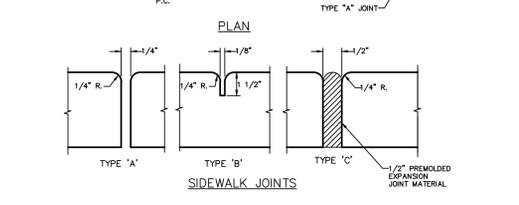
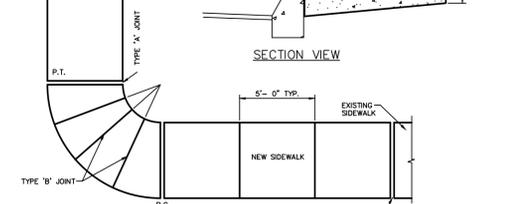


CURB AND GUTTER DETAILS SCALE: N.T.S.



STORM MANHOLE TOP SCALE: N.T.S.

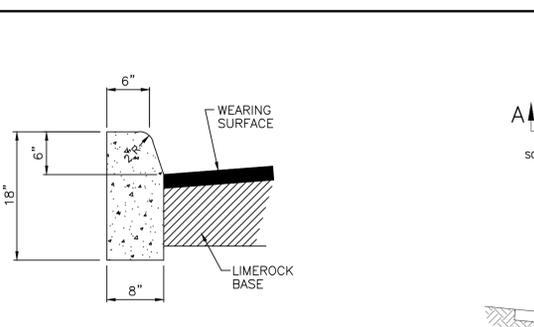
TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES.
'B'	5'-0\"/>



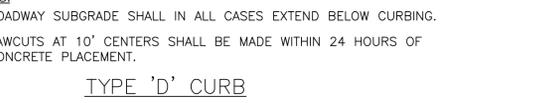
SIDEWALK JOINTS



SIDEWALK CONSTRUCTION DETAIL NOT TO SCALE



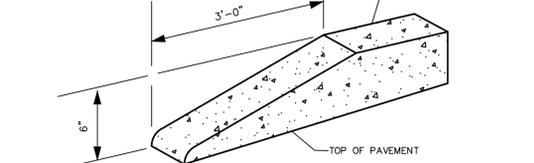
CONCRETE APRON W/INLET



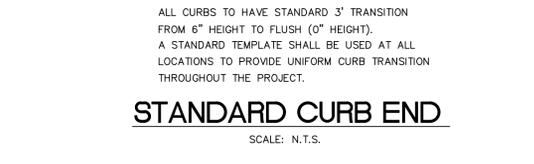
CONCRETE APRON W/INLET SCALE: N.T.S.



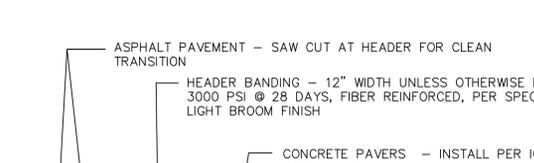
STANDARD CURB END



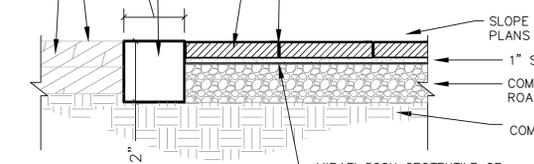
STANDARD CURB END



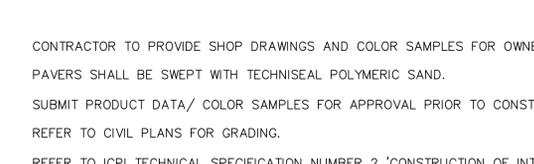
CONNECTION TO EXISTING PAVEMENT DETAIL SCALE: N.T.S.



TYPICAL PAVERS - ROADWAY DETAIL



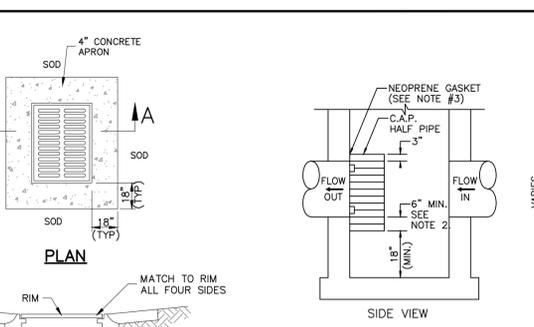
TYPICAL PAVERS - ROADWAY DETAIL



TYPICAL PAVERS - ROADWAY DETAIL



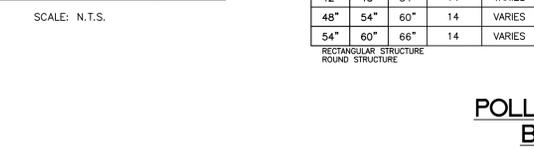
TYPICAL PAVERS - ROADWAY DETAIL



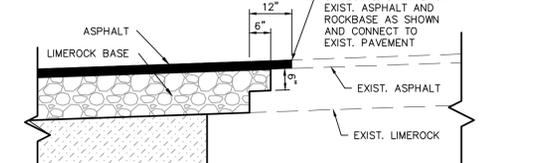
POLLUTION RETARDANT BAFFLE DETAIL



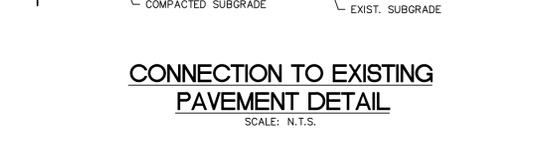
POLLUTION RETARDANT BAFFLE DETAIL



POLLUTION RETARDANT BAFFLE DETAIL



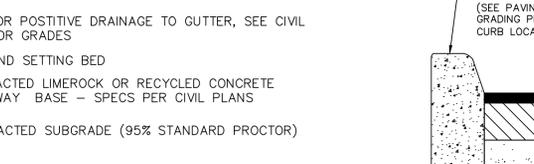
RAISED CONCRETE SIDEWALK



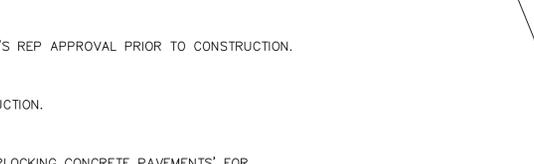
RAISED CONCRETE SIDEWALK



RAISED CONCRETE SIDEWALK



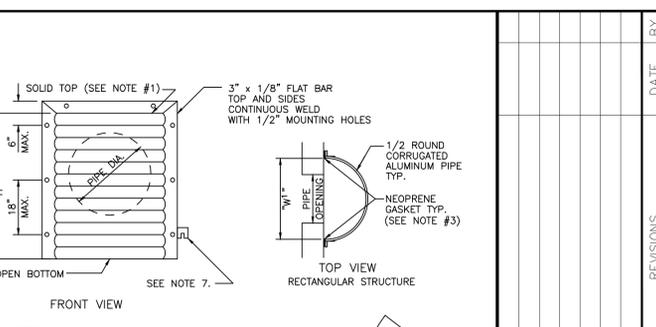
RAISED CONCRETE SIDEWALK



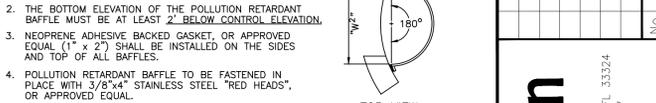
RAISED CONCRETE SIDEWALK



RAISED CONCRETE SIDEWALK



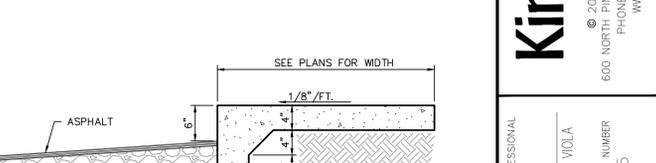
TYPICAL PAVEMENT DETAIL



TYPICAL PAVEMENT DETAIL



TYPICAL PAVEMENT DETAIL



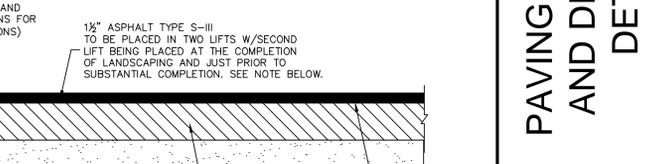
TYPICAL PAVEMENT DETAIL



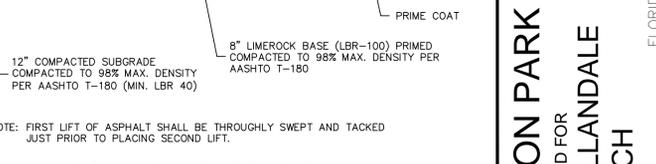
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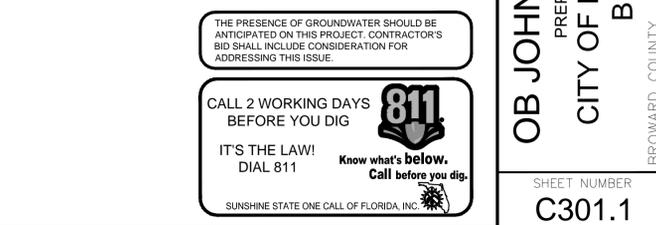
TYPICAL PAVEMENT DETAIL



TYPICAL PAVEMENT DETAIL



TYPICAL PAVEMENT DETAIL



TYPICAL PAVEMENT DETAIL

KHA PROJECT: 04-3645000
 DATE: 06/04/2014
 SCALE: AS SHOWN
 DESIGNED BY: STEFANO F. VIOLA
 DRAWN BY: STEFANO F. VIOLA
 CHECKED BY: SFV
 DATE: 02/12/15

LICENSED PROFESSIONAL
 STEFANO F. VIOLA
 FLORIDA LICENSE NUMBER: 74655
 DATE: 02/12/15

REVISIONS
 No. DATE BY

Kimley»Horn

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 600 NORTH WILSON ROAD, SUITE 400, BOCA RATON, FL 33424
 PHONE: (561) 535-5151 FAX: (561) 719-2147
 WWW.KIMLEY-HORN.COM CA 0000696

OB JOHNSON PARK
 PREPARED FOR
 CITY OF HALLANDALE
 BEACH

FLORIDA
 BROWARD COUNTY

PAVING GRADING
 AND DRAINAGE
 DETAILS

SHEET NUMBER
 C301.1

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

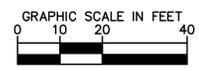
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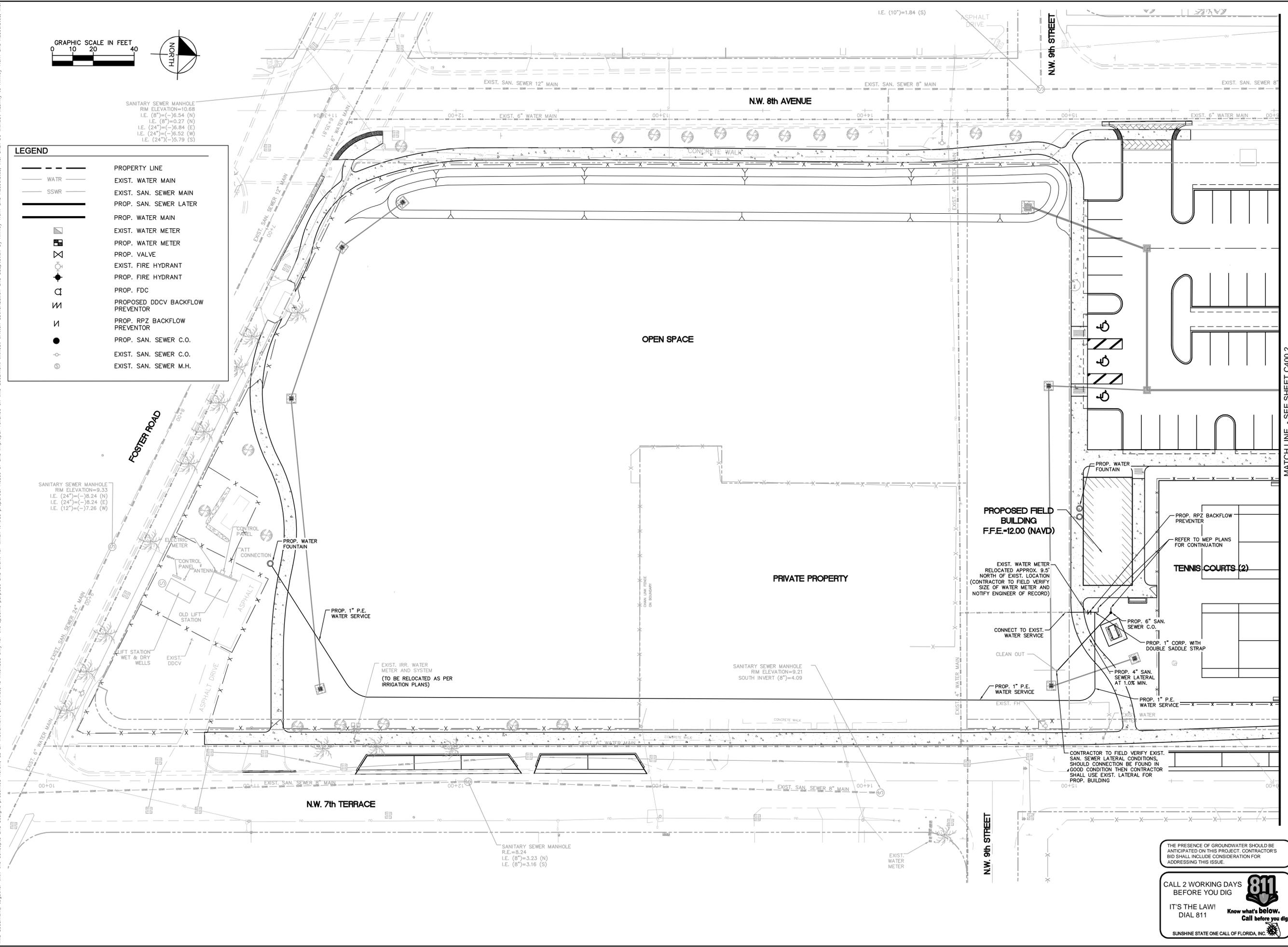
Plotted By: Floriana, Carlos Sheet: 043645000 - Layout: C400.1 WATER AND SEWER PLAN February 12, 2015 09:20:04am K:\VH\civil\043 jobs\043645000-cb Johnson park\CADD\plansheets\C400.1 45000 WATER AND SEWER PLAN.dwg
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LEGEND	
	PROPERTY LINE
	EXIST. WATER MAIN
	EXIST. SAN. SEWER MAIN
	PROP. SAN. SEWER LATER
	PROP. WATER MAIN
	EXIST. WATER METER
	PROP. WATER METER
	PROP. VALVE
	EXIST. FIRE HYDRANT
	PROP. FIRE HYDRANT
	PROP. FDC
	PROPOSED DDCV BACKFLOW PREVENTOR
	PROP. RPZ BACKFLOW PREVENTOR
	PROP. SAN. SEWER C.O.
	EXIST. SAN. SEWER C.O.
	EXIST. SAN. SEWER M.H.

SANITARY SEWER MANHOLE
 RIM ELEVATION=10.68
 I.E. (8")=-6.54 (N)
 I.E. (8")=0.27 (N)
 I.E. (24")=-3.84 (E)
 I.E. (24")=-16.52 (W)
 I.E. (24")=-15.79 (S)

SANITARY SEWER MANHOLE
 RIM ELEVATION=9.33
 I.E. (24")=-3.24 (N)
 I.E. (24")=-8.24 (E)
 I.E. (12")=-7.26 (W)



MATCH LINE - SEE SHEET C400.2

Kimley»Horn	
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LICENSED PROFESSIONAL STEFANO F. VIOLA FLORIDA LICENSE NUMBER 74655	KHA PROJECT 043645000 DATE 08/04/2014 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY SFV DATE: 02/12/15
WATER AND SEWER PLAN	
OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH FLORIDA BROWARD COUNTY	
SHEET NUMBER C400.1	

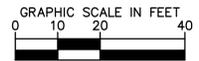
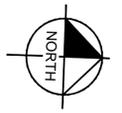
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CALL 2 WORKING DAYS BEFORE YOU DIG

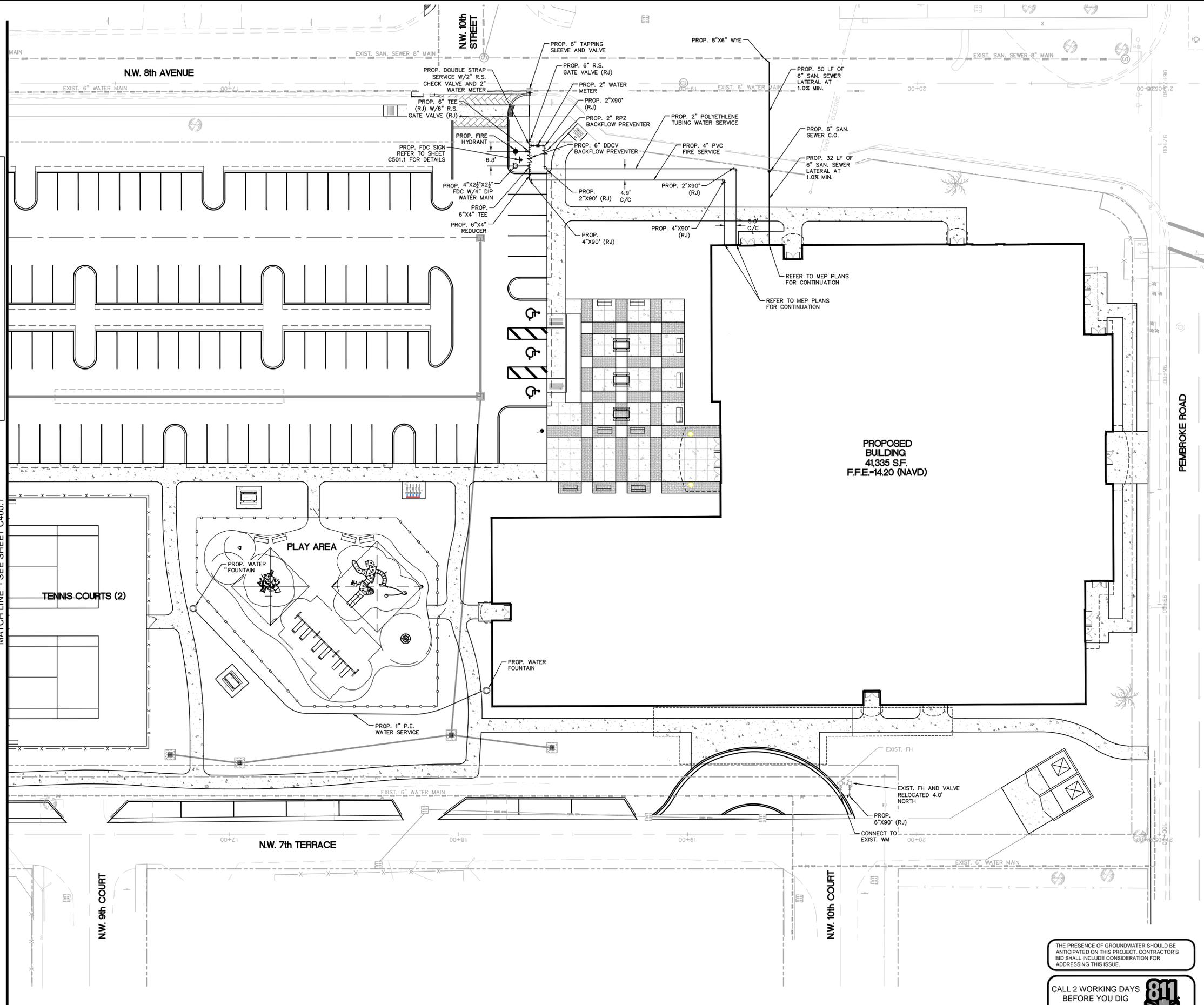
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Plotted By: Florida, Cadis - Sheet: 043645000 - Layout: C400.2 - WATER AND SEWER PLAN - February 12, 2015 - 07:50:43am - K:\V\civil\043 faba\043645000-eb_ebrason.dwg\CADD\plotsheets\C400.1_45000_WATER_AND_SEWER_PLAN.dwg
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LEGEND	
	PROPERTY LINE
	WATR
	SSWR
	PROPERTY LINE
	EXIST. WATER MAIN
	EXIST. SAN. SEWER MAIN
	PROP. SAN. SEWER LATER
	PROP. WATER MAIN
	EXIST. WATER METER
	PROP. WATER METER
	PROP. VALVE
	EXIST. FIRE HYDRANT
	PROP. FIRE HYDRANT
	PROP. FDC
	PROPOSED DDCV BACKFLOW PREVENTER
	PROP. RPZ BACKFLOW PREVENTER
	PROP. SAN. SEWER C.O.
	EXIST. SAN. SEWER C.O.
	EXIST. SAN. SEWER M.H.



MATCH LINE - SEE SHEET C400.1

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

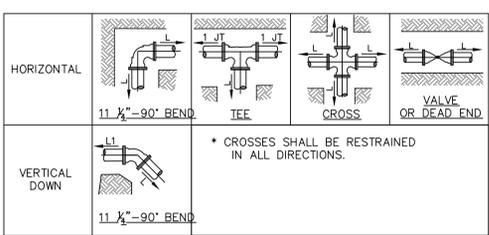
CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW! DIAL 811 **Know what's below. Call before you dig.**

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH	FLORIDA	BROWARD COUNTY	LICENSED PROFESSIONAL STEFANO F. VIOLA FLORIDA LICENSE NUMBER 74655	
			KHA PROJECT 04-3645000 DATE 06/04/2014 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY SFV DATE 02/12/15	REVISIONS No. DATE BY
WATER AND SEWER PLAN		Kimley»Horn © 2010 KIMLEY-HORN AND ASSOCIATES, INC. 600 NORTH WILSON ROAD, SUITE 400, BOCA RATON, FL 33324 PHONE: (561) 535-5100 FAX: (561) 739-2147 WWW.KIMLEY-HORN.COM CA 0000696		SHEET NUMBER C400.2

Plotted By: Eriqon, Capric Sheet: Sat:043645000 Layout: C401.1 WATER AND SEWER DETAILS February 12, 2015 07:50:54am K:\VU_elec\043645000-eb_johnson_cadd\cadd\pds\sheet\C401.1_45000_WATER_AND_SEWER_DETAILS.dwg
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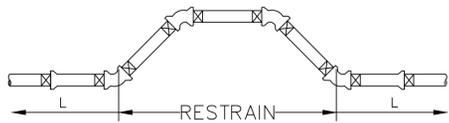


Diameter	HORIZONTAL/VERTICAL UP L ₁ (FEET)					VERTICAL DOWN L ₁ (FEET)				
	11 1/2'	22 1/2'	45'	90'	90'	11 1/2'	22 1/2'	45'	90'	
4	2	5	10	24	50	5	10	21	50	
6	3	7	14	34	70	7	14	29	70	
8	4	9	18	43	90	9	18	37	90	
10	5	10	21	52	109	11	22	45	109	
12	6	12	25	60	127	12	25	52	127	
16	7	15	31	75	161	16	32	67	161	
18	8	16	34	82	177	17	35	73	177	
20	9	18	37	89	192	19	38	80	192	
24	10	20	42	102	223	22	44	92	223	
30	12	24	50	120	264	26	53	110	264	
36	13	24	56	135	302	30	60	125	302	
42	15	30	62	149	336	33	67	139	336	

NOTE:
 THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH "THRUST RESTRAINT FOR DUCTILE IRON PIPE," VERSION 3.3 BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
 SOIL CONDITIONS: SAND/SILT
 LAYING CONDITION: 3
 MINIMUM COVER: 2.5 FT
 SAFETY FACTOR: 1.5
 BARE PIPE

IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY HALLANDALE BEACH DPW.

RESTRAINED JOINT REQUIREMENTS



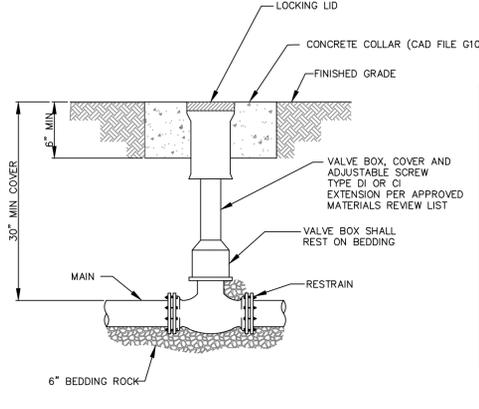
Diameter	RESTRAINED LENGTH L ₁ (FEET)			
	11 1/2'	22 1/2'	45'	90'
4"	5	10	20	50
6"	7	13	28	70
8"	8	17	36	90
10"	10	21	43	109
12"	12	24	50	127
16"	15	30	62	161
18"	16	33	68	177
20"	18	35	74	192
24"	20	41	85	223
30"	24	48	99	264
36"	27	54	112	302
42"	29	59	123	336

NOTE:
 THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH "THRUST RESTRAINT FOR DUCTILE IRON PIPE," VERSION 3.3 BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
 SOIL CONDITIONS: SAND/SILT
 LAYING CONDITION: 3
 MINIMUM COVER: 2.5 FT
 SAFETY FACTOR: 1.5
 BARE PIPE

IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY HALLANDALE BEACH DPW.

COMBINED DUCTILE IRON PIPE—HORIZONTAL OFFSET 150 PSI TEST PRESSURE

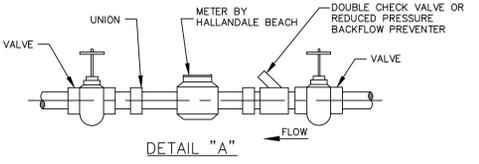
N.T.S.



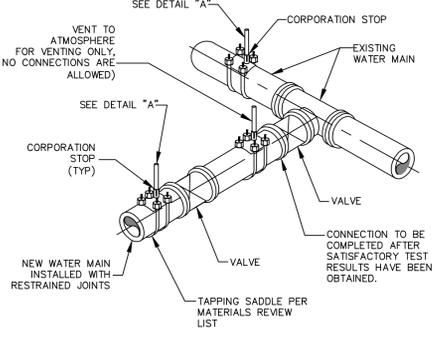
- NOTES:**
- WHEN VALVE IS NOT LOCATED IN PAVEMENT, PLACE A WHITE PAVEMENT REFLECTOR MARKER IN THE DRIVE LANE, ADJACENT TO THE VALVE.
 - OPERATOR EXTENSION SHAFT SHALL BE PROVIDED WHEN OPERATING NUT IS MORE THAN 24" BELOW TOP OF VALVE BOX RISER.
 - BVC OR DUCTILE IRON PIPE IS NOT ACCEPTABLE FOR VALVE BOX RISER.

VALVE BOX DETAIL

N.T.S.



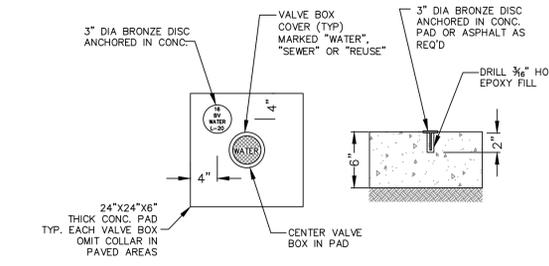
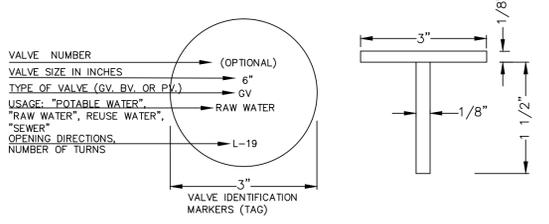
DETAIL "A"



- NOTES:**
- REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW LINE.
 - DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN COMPLETED.
 - CLOSE CORPORATION STOPS AND PLUG WITH BRASS FITTINGS/CAP AFTER SAMPLING IS COMPLETED.

FILLING AND FLUSHING CONNECTION

N.T.S.



VALVE COLLAR AND IDENTIFICATION MARKER

N.T.S.

REDUCERS — REQUIRED LENGTH OF RESTRAINT AT LARGE SIDE (FEET)*

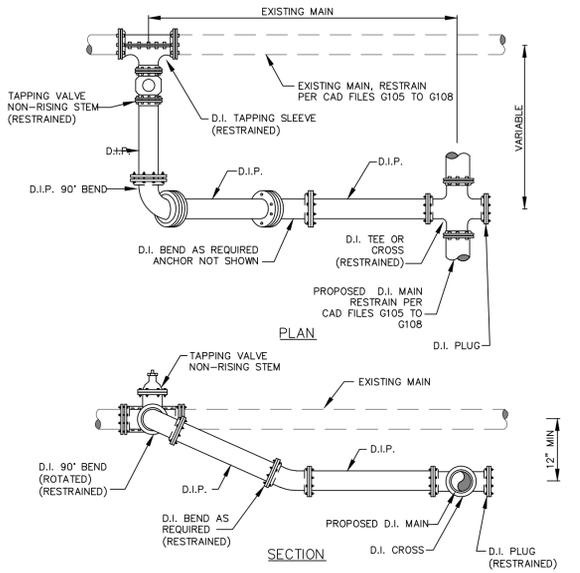
DIAMETER	4"	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	42"
4"	36	65	88	110	149	166	183	215	258	297	332	
6"		38	67	92	135	155	173	207	252	292	328	
8"			36	67	117	139	159	196	243	285	322	
10"				37	95	120	142	182	233	277	315	
12"					68	96	120	165	219	266	306	
16"						36	68	122	186	240	284	
18"							36	96	166	234	271	
20"								67	144	206	257	
24"									93	165	223	
30"										91	162	
36"											87	
42"												87

NOTE:
 THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH "THRUST RESTRAINT FOR DUCTILE IRON PIPE," VERSION 3.3 BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
 SOIL CONDITIONS: SAND/SILT
 LAYING CONDITION: 3
 MINIMUM COVER: 2.5 FT
 SAFETY FACTOR: 1.5
 BARE PIPE

IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY HALLANDALE BEACH DPW.

PIPE RESTRAINT DUCTILE IRON PIPE—REDUCING FITTING 150 PSI TEST PRESSURE

N.T.S.



- NOTES:**
- TAPPING SLEEVE PER MATERIALS REVIEW LIST.
 - ALL JOINTS TO BE RESTRAINED BY APPROVED METHODS.

TYPICAL CONNECTION TO EXISTING MAIN

N.T.S.

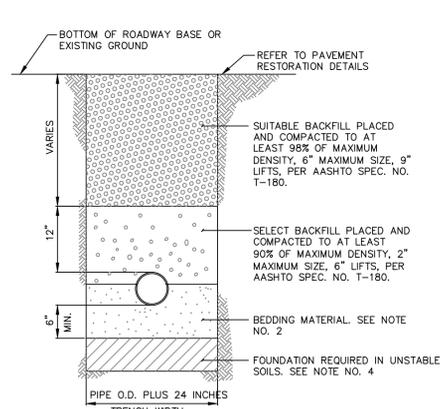
WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1) (4)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)	3 ft. minimum	12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
VACUUM SANITARY SEWER	10 ft. preferred 3 ft. minimum	12 inches preferred 6 inches min	Alternate 3 ft. minimum
GRAVITY SANITARY SEWER (3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER	10 ft. preferred 6 ft. minimum	12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft. minimum		

- (1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
 (2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
 (3) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
 (4) 18" VERTICAL MINIMUM SEPARATION REQUIRED, UNLESS OTHERWISE APPROVED.

MINIMUM PIPE SEPARATION SPECIFICATIONS

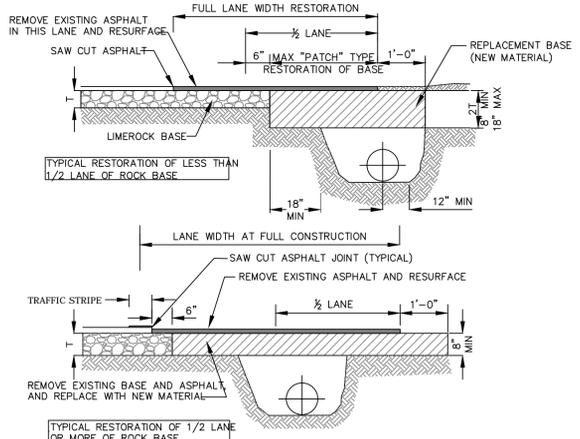
N.T.S.



- NOTES:**
- FOR EXCAVATION AND BACKFILL AROUND MANHOLES, APPURTENANCES, OR IN WATER, REFER TO PROVISIONS WITHIN THE SPECIFICATIONS.
 - UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAX. SIZE, OR WASHED AND GRADED LIMEROCK (3/8" - 7/8"), COMPACTED TO AT LEAST 90% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-180.
 - WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
 - WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED, COMPACTED TO AT LEAST 90% OF MAX. DENSITY, 6" LIFTS PER AASHTO SPEC. NO. T-180. FOUNDATION MATERIAL SHALL BE SELECT BACKFILL MATERIAL, 2" MAXIMUM SIZE, 6" LIFTS. EXTEND EXCAVATION UNTIL A SUITABLE MATERIAL IS FOUND.

TYPICAL TRENCH BACKFILL

N.T.S.



- NOTES:**
- BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS).
 - BASE SHALL BE PLACED IN 6" MAXIMUM THICKNESS LAYERS WITH EACH LAYER COMPACTED AS REQUIRED AND TESTED PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
 - SUBGRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
 - BACK FILL SHALL BE PLACED AND COMPACTED IN 6" LAYERS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
 - ALL EDGES OF EXISTING ASPHALT PAVEMENT THAT ABUT RESURFACING SHALL BE SAW CUT IN STRAIGHT LINES PARALLEL TO THE ROADWAY, PRIOR TO RESURFACING.
 - RESURFACING MATERIAL SHALL BE CONSISTENT WITH SURROUNDING SURFACE, AND SHALL BE APPLIED IN 2 LIFTS, A MINIMUM OF 3/4 INCH AND A MAXIMUM OF 2" IN THICKNESS.
 - TRAFFIC STRIPES SHALL NOT BE PLACED DIRECTLY ON TOP OF THE JOINT.

RESTORATION OF ROADWAY CUT

N.T.S.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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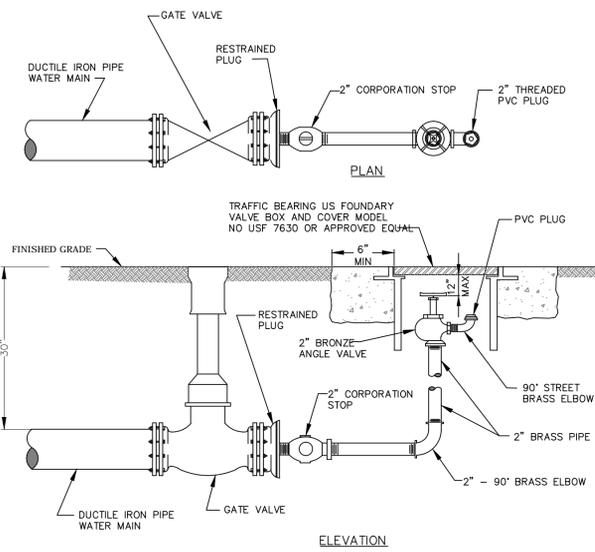
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 PHONE: (954) 535-5151 FAX: (954) 749-2247
 WWW.KIMLEY-HORN.COM CA 0000696

KHA PROJECT: 04-3645000
 DATE: 06/04/2014
 SCALE: AS SHOWN
 DESIGNED BY: STEFANO F. VIOLA
 FLORIDA LICENSE NUMBER: 74655
 DRAWN BY: [blank]
 CHECKED BY: SFV
 DATE: 05/12/15

WATER AND SEWER DETAILS

OB JOHNSON PARK
 PREPARED FOR
 CITY OF HALLANDALE
 BEACH
 FLORIDA
 BROWARD COUNTY
 SHEET NUMBER
C401.1

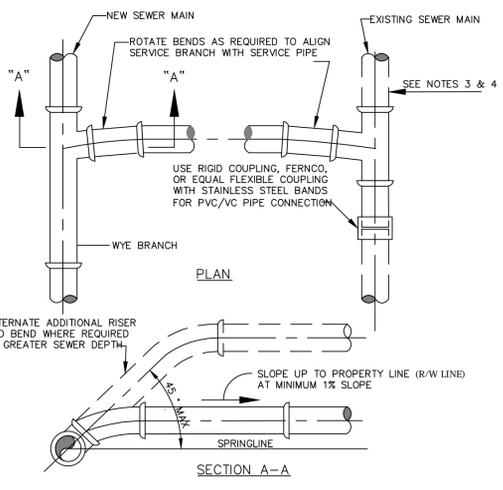
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NOTES:

- PIPE JOINT COMPOUND SHALL BE APPLIED TO MALE THREADS ONLY.
- 2" TAP IN MIDDLE OF PLUG.
- USE RESTRAINED JOINT PIPE.
- IN GRASS AREA USE CONCRETE COLLARS, 6" THICK.

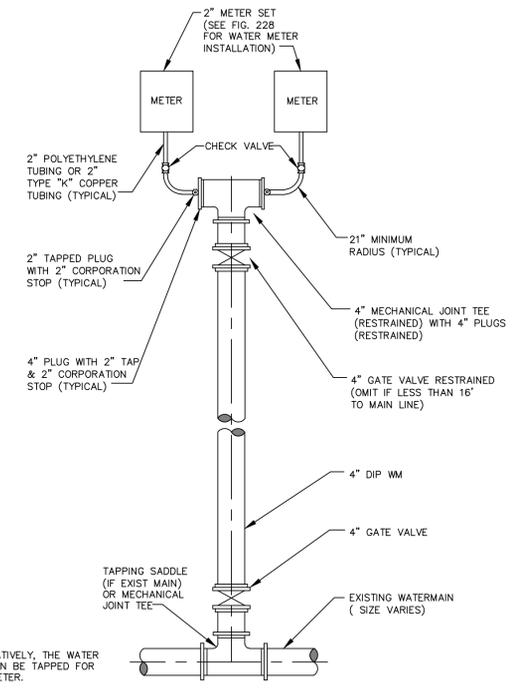
MANUAL BLOWOFF
N.T.S.



NOTES:

- SINGLE SERVICE CONNECTIONS SHALL USE 6" SDR 26 PVC PIPE AND FITTINGS.
- USE RISER CONNECTIONS WHERE INVERT OF SEWER IS MORE THAN 7'-0" DEEP.
- WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A SECOND FLEXIBLE COUPLING.
- RIGID COUPLINGS MAY BE USED IN LIEU OF FLEXIBLE COUPLINGS.
- MAINTAIN 36" MINIMUM COVER FROM TOP OF SERVICE TO FINISH GRADE, WHERE NOT TECHNICALLY FEASIBLE, CONTACT HALLANDALE BEACH ENGINEERING.
- PVC SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH MINIMUM STANDARDS OF THE UNI-BELL HANDBOOK OF PVC PIPE DESIGN AND CONSTRUCTION, LATEST EDITION.

WYE SEWER SERVICE CONNECTION
N.T.S.



NOTE:
ALTERNATIVELY, THE WATER MAIN CAN BE TAPPED FOR EACH METER.

METER INSTALLATION FOR 2" METERS
N.T.S.

MAXIMUM QUANTITY OF WATER (GALLONS PER HOUR) THAT MAY BE SUPPLIED TO MAINTAIN PRESSURE WITHIN 5 P.S.I. OF THE SPECIFIED TEST PRESSURE (MECHANICAL OR PUSH-ON JOINT, 18 FT. NOMINAL LENGTHS, PER 1000 FT. OF PIPE)

AVG. TEST PRESSURE - PSI	PIPE DIAMETER (INCHES)															
	2	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48
150	0.10	0.14	0.18	0.27	0.37	0.46	0.55	0.64	0.73	0.83	0.92	1.10	1.38	1.65	1.93	2.20
200	0.10	0.15	0.21	0.31	0.42	0.53	0.63	0.74	0.84	0.95	1.06	1.27	1.59	1.91	2.22	2.54

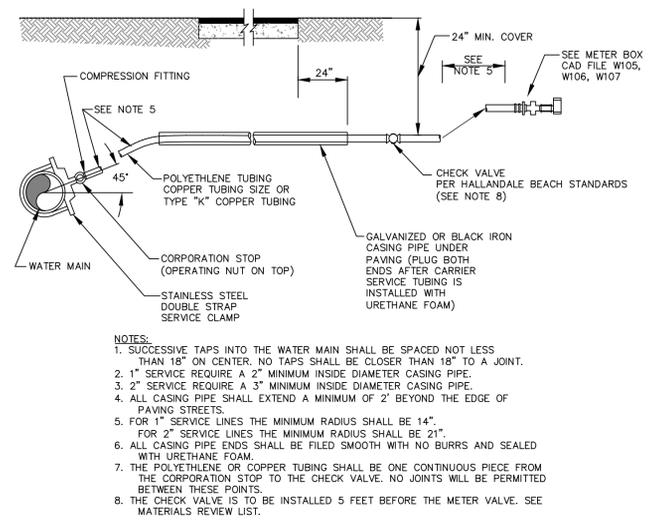
FORMULA BASIS: $L = \frac{(S) \times (D) \times (P)^{1/2}}{148,000} \times 1/2$

L = MAXIMUM QUANTITY OF WATER TO BE ADDED (GALLONS PER HOUR)
 S = LENGTH OF PIPE TESTED (FEET)
 D = DIAMETER OF PIPE (INCHES)
 P = TEST PRESSURE (P.S.I.)

NOTES:

- TO OBTAIN THE MAXIMUM QUANTITY OF WATER FOR PIPE WITH 20 FT. NOMINAL LENGTHS, MULTIPLY THE QUANTITY CALCULATED FROM THE TABLE BY 0.9
- THE MAXIMUM QUANTITY OF ADDED WATER FOR A PIPELINE IS CALCULATED BY MULTIPLYING THE QUANTITY PER HOUR AS OBTAINED FROM THE ABOVE TABLE, BY THE DURATION OF THE TEST IN HOURS, AND BY THE TOTAL LENGTH OF THE LINE BEING TESTED DIVIDED BY 1,000. IF THE LINE UNDER TEST CONTAINS SECTIONS OF VARIOUS DIAMETERS, THE MAXIMUM QUANTITY ADDED WILL BE THE SUM OF THE COMPUTED QUANTITIES FOR EACH SIZE.
- MAXIMUM TEST LENGTH = 2,500 FEET PER SECTION.
- THIS STANDARD SHALL REFLECT ANY REVISION OF A.W.W.A. C-600. HOWEVER, THE MAXIMUM QUANTITY OF WATER ADDED SHALL NOT EXCEED 50% OF THE RECOMMENDED LIMIT PER APPLICABLE AWWA C-600 STANDARD.
- STANDARD TEST PRESSURE = 150 P.S.I.; 200 P.S.I. FOR MAINS LARGER THAN 24"
- PRESSURE TEST DURATION TO BE MIN. 2 HOURS.

POTABLE WATER MAIN PRESSURE TEST CRITERIA
N.T.S.

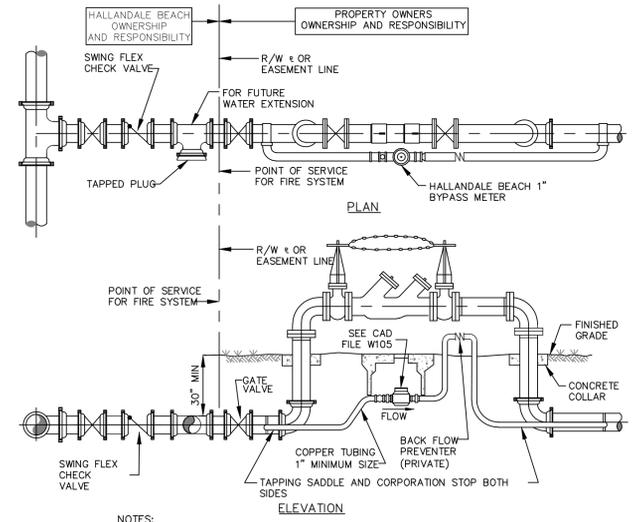


NOTES:

- SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER. NO TAPS SHALL BE CLOSER THAN 18" TO A JOINT.
- 1" SERVICE REQUIRE A 2" MINIMUM INSIDE DIAMETER CASING PIPE.
- 2" SERVICE REQUIRE A 3" MINIMUM INSIDE DIAMETER CASING PIPE.
- ALL CASING PIPE SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVING STREETS.
- FOR 1" SERVICE LINES THE MINIMUM RADIUS SHALL BE 14". FOR 2" SERVICE LINES THE MINIMUM RADIUS SHALL BE 21".
- ALL CASING PIPE ENDS SHALL BE FILED SMOOTH WITH NO BURRS AND SEALED WITH URETHANE FOAM.
- THE POLYETHYLENE OR COPPER TUBING SHALL BE ONE CONTINUOUS PIECE FROM THE CORPORATION STOP TO THE CHECK VALVE. NO JOINTS WILL BE PERMITTED BETWEEN THESE POINTS.
- THE CHECK VALVE IS TO BE INSTALLED 5 FEET BEFORE THE METER VALVE. SEE MATERIALS REVIEW LIST.

THIS DETAIL APPLIES ONLY TO RESIDENTIAL ROADS WITH LESS THAN 70' R.O.W. (NO MEDIATE) OR WITHIN EASEMENTS

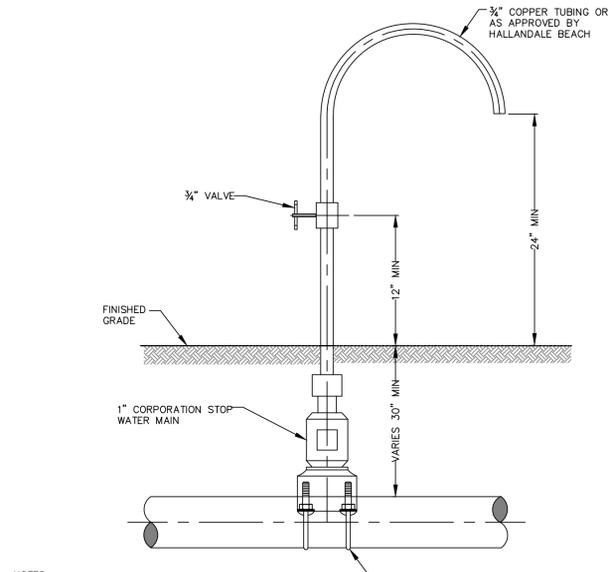
TYPE 1 WATER SERVICE CONNECTION
N.T.S.



NOTES:

- THE DOUBLE CHECK VALVE SHALL BE PRIVATELY OWNED BY PROPERTY OWNER.
- FIRE SYSTEM TO BE CONSTRUCTED/TESTED IN ACCORDANCE WITH NFPA STDS. & ALL APPLICABLE CODES.
- METER BOX AND SERVICE LINE SHALL BE IN ACCORDANCE WITH HALLANDALE BEACH STANDARD DETAIL.
- FOR WATER METER INSTALLATION AND NFP STDS & CODES. USE TYPE "K" COPPER TUBING AND BRASS OR COPPER FITTINGS.
- BACK FLOW PREVENTER FOLLOWING THE METER SHALL BE THE SAME TYPE DEVICE (DEGREE OF HAZARD) AS THE FIRE MAIN DEVICE. THIS SHALL BE PRIVATELY OWNED BY THE PROPERTY OWNER. METER AND METER BOX SHALL BE SUPPLIED BY CONTRACTOR.
- EXTENT OF HALLANDALE BEACH OWNERSHIP IS LIMITED TO THE BYPASS METER AND ALL PIPING PRIOR TO THE POINT OF SERVICE FOR THE FIRE SYSTEM. THIS DRAWING VIA PLAN AND PROFILE ABOVE.

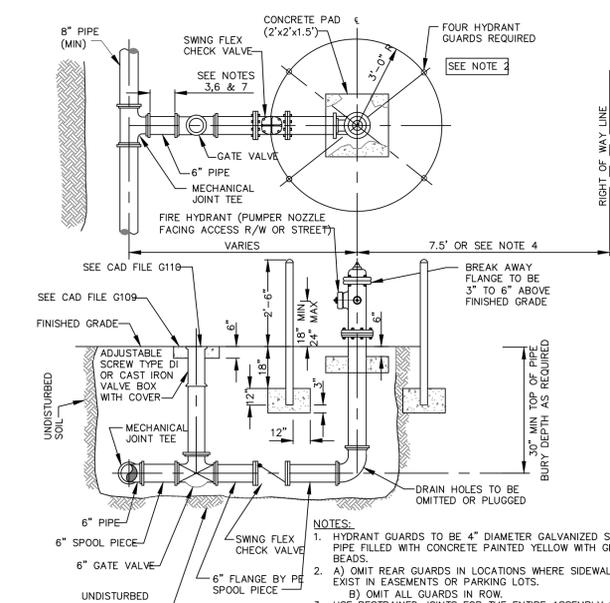
TYPE 1 PRIVATE FIRE PROTECTION
N.T.S.



NOTES:

- SAMPLE POINTS SHALL BE LOCATED AND LATER REMOVED AS REQUIRED BY BROWARD COUNTY HEALTH DEPARTMENT.
- CORPORATION STOP SHALL BE CLOSED AND PLUGGED/CAPPED WITH A BRASS FITTING AFTER SAMPLING IS COMPLETED.
- SAMPLING POINTS MAY BE PLACED AT THE ENDS OF WATER SERVICES BEFORE THE METERS AND ON BLOW OFFS FOR TERMINAL WATER MAINS, WHERE SERVICES AND BLOW OFFS ARE REQUIRED BY THE PLANS.

SAMPLING POINT
N.T.S.



NOTES:

- HYDRANT GUARDS TO BE 4" DIAMETER GALVANIZED STEEL PIPE FILLED WITH CONCRETE PAINTED YELLOW WITH GLASS BEADS.
- A) OMIT REAR GUARDS IN LOCATIONS WHERE SIDEWALKS EXIST IN EASEMENTS OR PARKING LOTS. B) OMIT ALL GUARDS IN ROW.
- USE RESTRAINED JOINTS FOR THE ENTIRE ASSEMBLY SHOWN.
- HYDRANT SET BACK SHALL CONFORM TO FDOT AND BHCDC REQUIREMENTS, WHERE APPLICABLE.
- DUCTILE IRON TO BE USED FOR FIRE HYDRANT ASSEMBLY. GATE VALVE IS NORMALLY LOCATED NEXT TO TEE.
- IF DISTANCE FROM MAIN LINE TO FIRE HYDRANT IS GREATER THAN 16 FEET ANOTHER GATE VALVE WILL BE PROVIDED CLOSE TO THE HYDRANT. THIS SECOND VALVE SHALL BE INSTALLED WITHIN 5' OF THE FIRE HYDRANT. CHECK VALVE SHALL BE WITHIN 3' OF FIRE HYDRANT.

FIRE HYDRANT INSTALLATION
N.T.S.

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 PHONE: (561) 535-5100 FAX: (561) 719-2147
 WWW.KIMLEY-HORN.COM CA 0000696

LICENSED PROFESSIONAL

KHA PROJECT 04-3645000

DATE 06/04/2014

SCALE AS SHOWN

DESIGNED BY STEFANO F. VIOLA

DRAWN BY

CHECKED BY SFV DATE 02/12/15

FLORIDA LICENSE NUMBER 74655

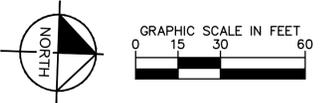
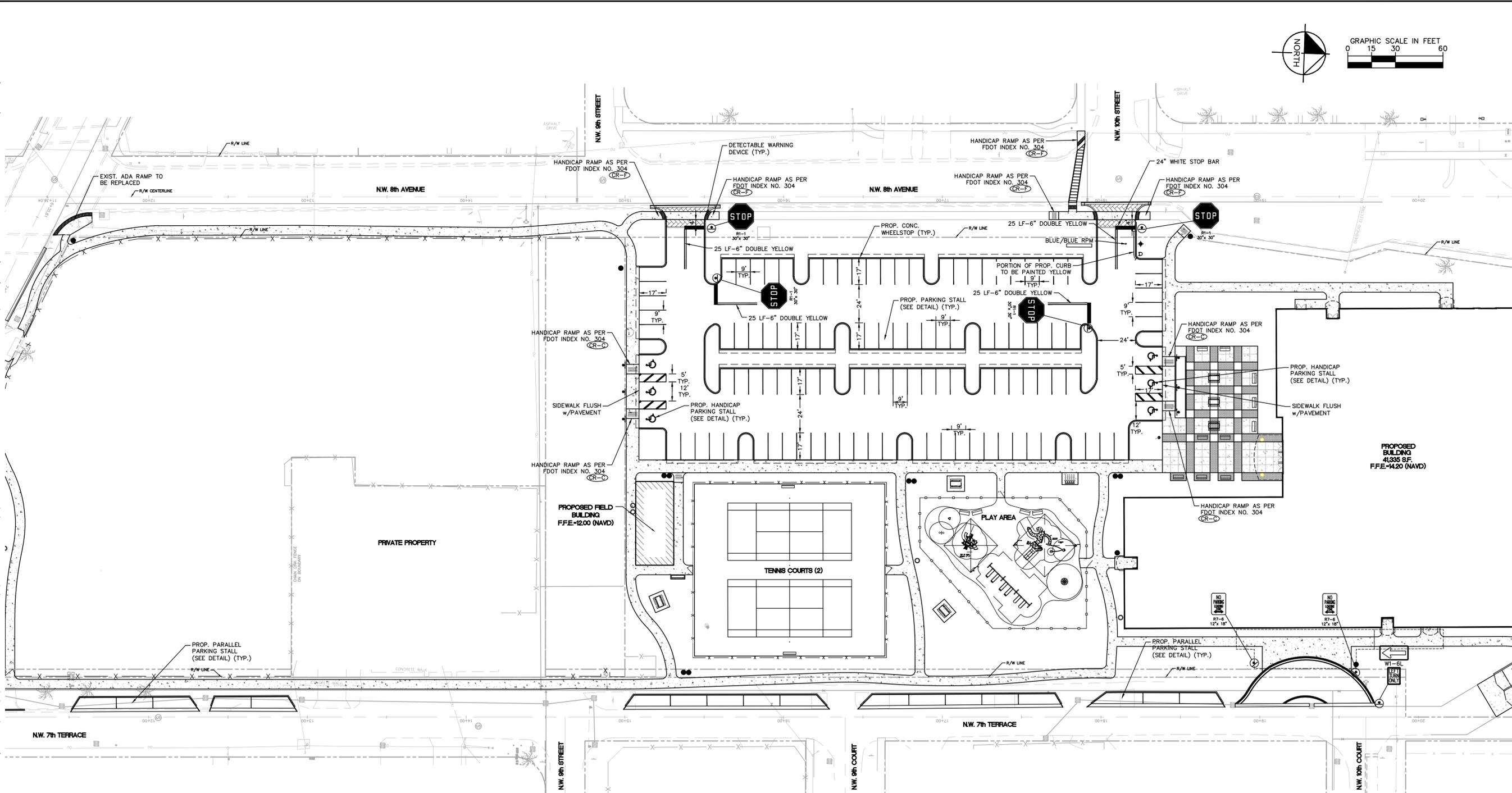
WATER AND SEWER DETAILS

OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH

FLORIDA BROWARD COUNTY

SHEET NUMBER C401.2

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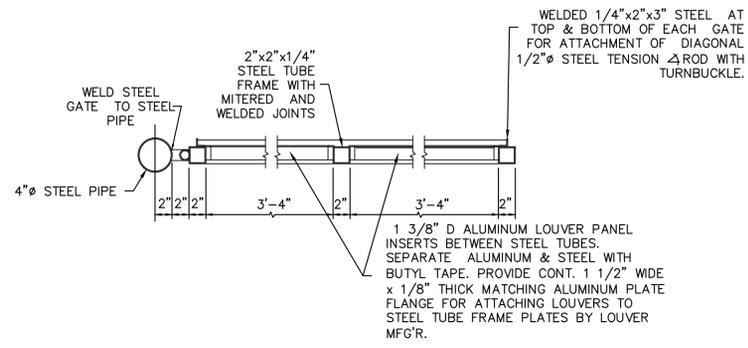
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LICENSED PROFESSIONAL
 STEFANO F. VIOLA
 FLORIDA LICENSE NUMBER 74655
 DATE: 02/12/15
 CHECKED BY: SFV

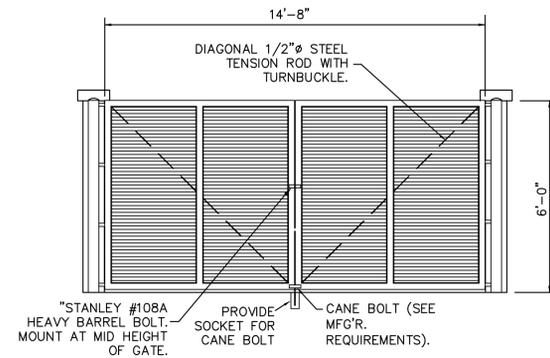
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 KHA PROJECT: 04-3645000
 DATE: 06/04/2014
 SCALE: AS SHOWN
 DESIGNED BY:
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OB JOHNSON PARK
 PREPARED FOR
CITY OF HALLANDALE BEACH
 FLORIDA
 BROWARD COUNTY
 SHEET NUMBER
C500.1

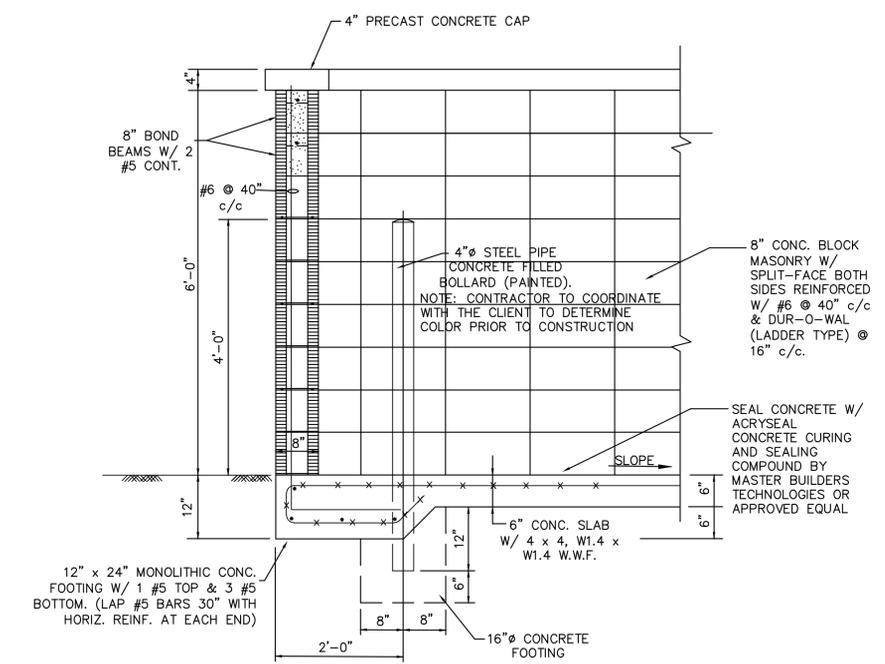
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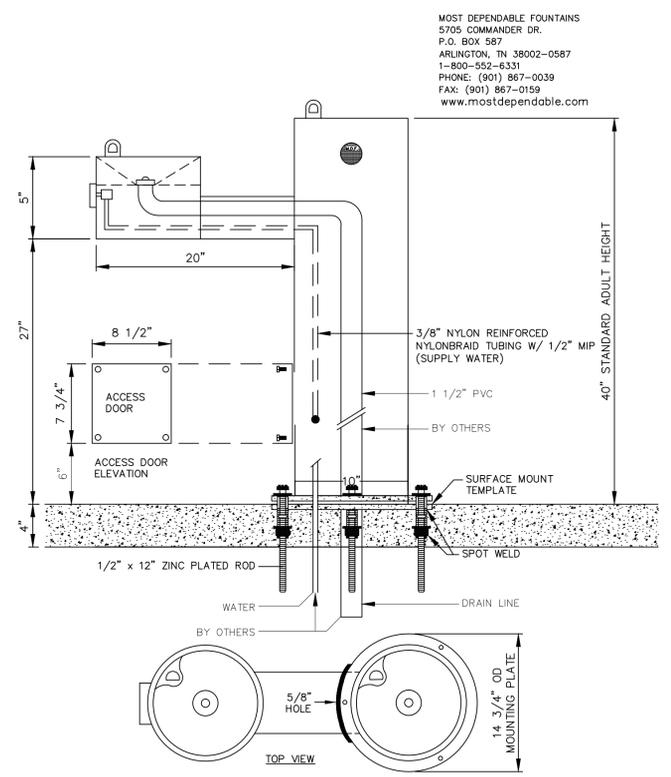
DUMPSTER GATE DETAIL
NOT TO SCALE



DUMPSTER ELEVATION
NOT TO SCALE



SECTION A
NOT TO SCALE

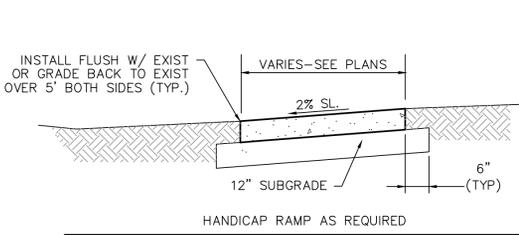
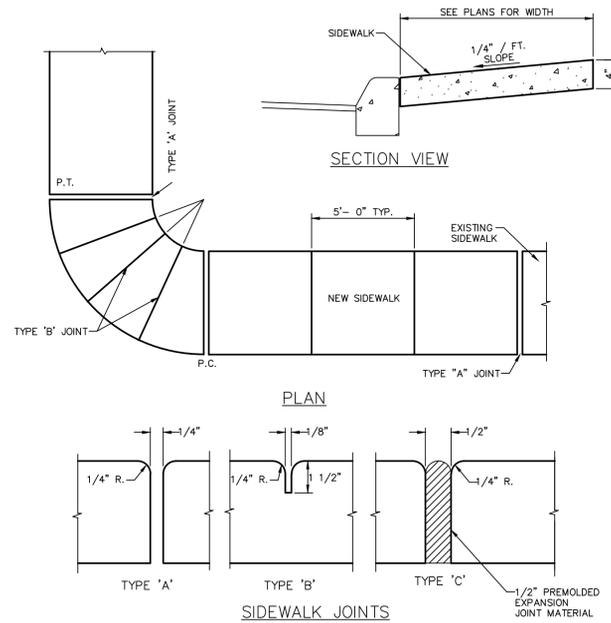


- NOTES:**
1. MEETS ADA REGULATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 4. OPTIONAL STAINLESS STEEL SURFACE CARRIER RECOMMENDED.
- (OR APPROVED EQUAL)

DRINKING FOUNTAIN DETAIL
ELEVATION & PLAN NOT TO SCALE

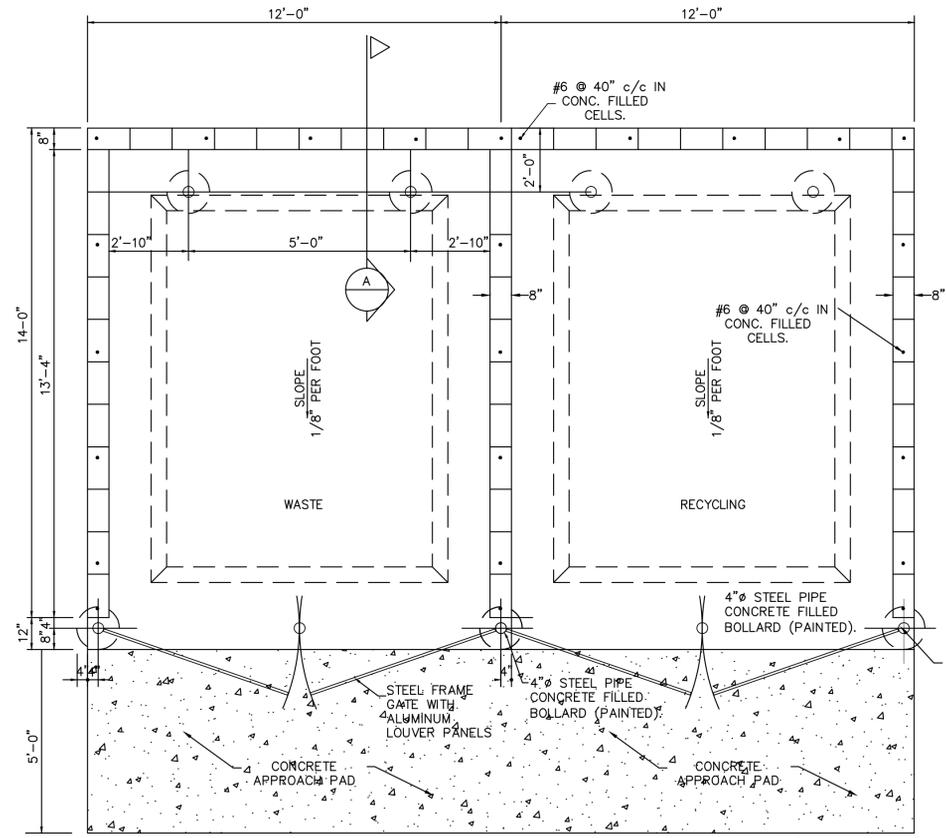
TABLE OF SIDEWALK JOINTS

TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES.
'B'	5'-0" CENTER TO CENTER ON SIDEWALKS.
'C'	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES. JUNCTION OF EXISTING AND NEW SIDEWALKS. AT 100' INTERVALS (MIN.)



- NOTES:**
1. PROVIDE 1/8" CONSTRUCTION JOINTS AT 5' c.c., MINIMUM DEPTH 1-1/2".
 2. PROVIDE 1/2" EXPANSION JOINTS W/ NON-RISING FILLER AT 100' c.c. TO RUN FULL DEPTH OF SLAB.
 3. PROVIDE 6" THICKNESS FOR ALL DRIVEWAYS.
 4. REINFORCE DRIVEWAYS WITH 6/8 10:10 WELDED WIRE MESH.
 5. CONCRETE TO BE 3000 PSI IN 28 DAYS.
 6. CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.

SIDEWALK CONSTRUCTION DETAIL
NOT TO SCALE



DUMPSTER-PLAN VIEW
NOT TO SCALE

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KHA PROJECT		DATE		DESIGNED BY		CHECKED BY	
04-3645000		06/04/2014		AS SHOWN		SFV	
SCALE		DATE		DRAWN BY		DATE	
AS SHOWN		02/12/15		SFV		02/12/15	
MISCELLANEOUS DETAILS				FLORIDA			
OB JOHNSON PARK				BROWARD COUNTY			
PREPARED FOR				CITY OF HALLANDALE BEACH			
SHEET NUMBER							
C600.2							

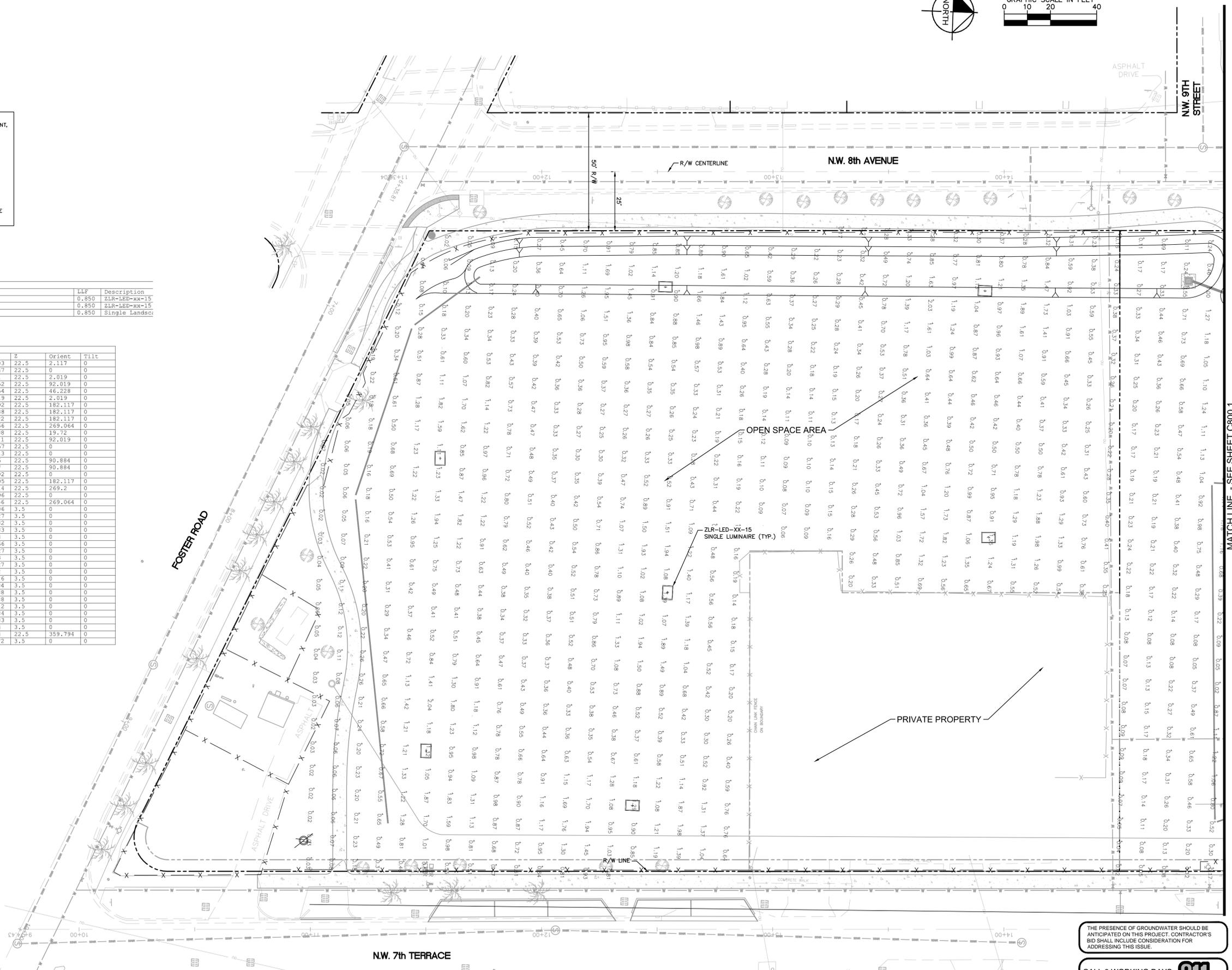
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LEGEND

-  PROPOSED ASPHALT PAVEMENT, LIMEROCK & SUBGRADE
-  PROPOSED CONCRETE
-  ZLR-LED-XX-15 BACK TO BACK LUMINAIRE
-  ZLR-LED-XX-15 SINGLE LUMINAIRE
-  SINGLE LANDSCAPE LUMINAIRE

Symbol	Qty	Label	Arrangement	LLF	Description
	4	ZLR-LED-XX-15 2BB	BACK-TO-BACK	0.850	ZLR-LED-XX-15
	19	ZLR-LED-XX-15	SINGLE	0.850	Single Landscape

LumNo	Label	X	Y	Z	Orient	Tilt
3	ZLR-LED-XX-15 2BB	81.764	474.003	22.5	2.117	0
4	ZLR-LED-XX-15 2BB	77.374	588.947	22.5	0	0
6	ZLR-LED-XX-15	9.93	482.91	22.5	2.019	0
8	ZLR-LED-XX-15	109.531	375.852	22.5	92.019	0
9	ZLR-LED-XX-15	23.019	391.254	22.5	46.228	0
10	ZLR-LED-XX-15	5.853	578.419	22.5	2.019	0
12	ZLR-LED-XX-15	157.544	458.592	22.5	182.117	0
13	ZLR-LED-XX-15	133.217	560.588	22.5	182.117	0
14	ZLR-LED-XX-15	149.097	662.822	22.5	182.117	0
16	ZLR-LED-XX-15	61.248	731.766	22.5	269.064	0
18	ZLR-LED-XX-15	5.583	669.408	22.5	19.72	0
19	ZLR-LED-XX-15	74.56	666.811	22.5	92.019	0
20	ZLR-LED-XX-15	34.535	269.257	22.5	0	0
21	ZLR-LED-XX-15	33.925	131.213	22.5	0	0
23	ZLR-LED-XX-15	119.901	31.846	22.5	90.884	0
24	ZLR-LED-XX-15	246.069	30.387	22.5	90.884	0
25	ZLR-LED-XX-15	261.666	124.992	22.5	0	0
26	ZLR-LED-XX-15	149.664	274.805	22.5	182.117	0
27	ZLR-LED-XX-15	174.076	141.314	22.5	269.2	0
30	ZLR-LED-XX-15 2BB	220.315	555.196	22.5	0	0
32	ZLR-LED-XX-15	212.91	680.056	22.5	269.064	0
33	ZLR-LED-XX-15	126.14	772.406	3.5	0	0
34	ZLR-LED-XX-15	140.231	772.537	3.5	0	0
35	ZLR-LED-XX-15	240.136	857.882	3.5	0	0
36	ZLR-LED-XX-15	238.921	874.083	3.5	0	0
37	ZLR-LED-XX-15	251.913	812.74	3.5	0	0
38	ZLR-LED-XX-15	265.076	778.566	3.5	0	0
39	ZLR-LED-XX-15	269.632	751.227	3.5	0	0
40	ZLR-LED-XX-15	266.848	719.33	3.5	0	0
41	ZLR-LED-XX-15	203.048	971.127	3.5	0	0
42	ZLR-LED-XX-15	191.15	970.62	3.5	0	0
43	ZLR-LED-XX-15	137.991	980.416	3.5	0	0
44	ZLR-LED-XX-15	108.93	979.404	3.5	0	0
45	ZLR-LED-XX-15	53.138	965.188	3.5	0	0
46	ZLR-LED-XX-15	25.356	901.788	3.5	0	0
47	ZLR-LED-XX-15	27.533	887.612	3.5	0	0
48	ZLR-LED-XX-15	29.834	831.084	3.5	0	0
49	ZLR-LED-XX-15	29.53	814.883	3.5	0	0
50	ZLR-LED-XX-15	31.251	772.04	3.5	0	0
51	ZLR-LED-XX-15 2BB	232.864	421.84	22.5	359.794	0
52	ZLR-LED-XX-15	237.433	950.472	3.5	0	0



GRAPHIC SCALE IN FEET

0 10 20 40

NORTH

MATCH LINE - SEE SHEET C800.1

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

811

CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW! Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley»Horn

LICENSED PROFESSIONAL

STEFANO F. VIOLA

FLORIDA LICENSE NUMBER 74655

DATE: 02/12/15

PHOTOMETRICS PLAN

OB JOHNSON PARK
PREPARED FOR
CITY OF HALLANDALE
BEACH

FLORIDA
BROWARD COUNTY

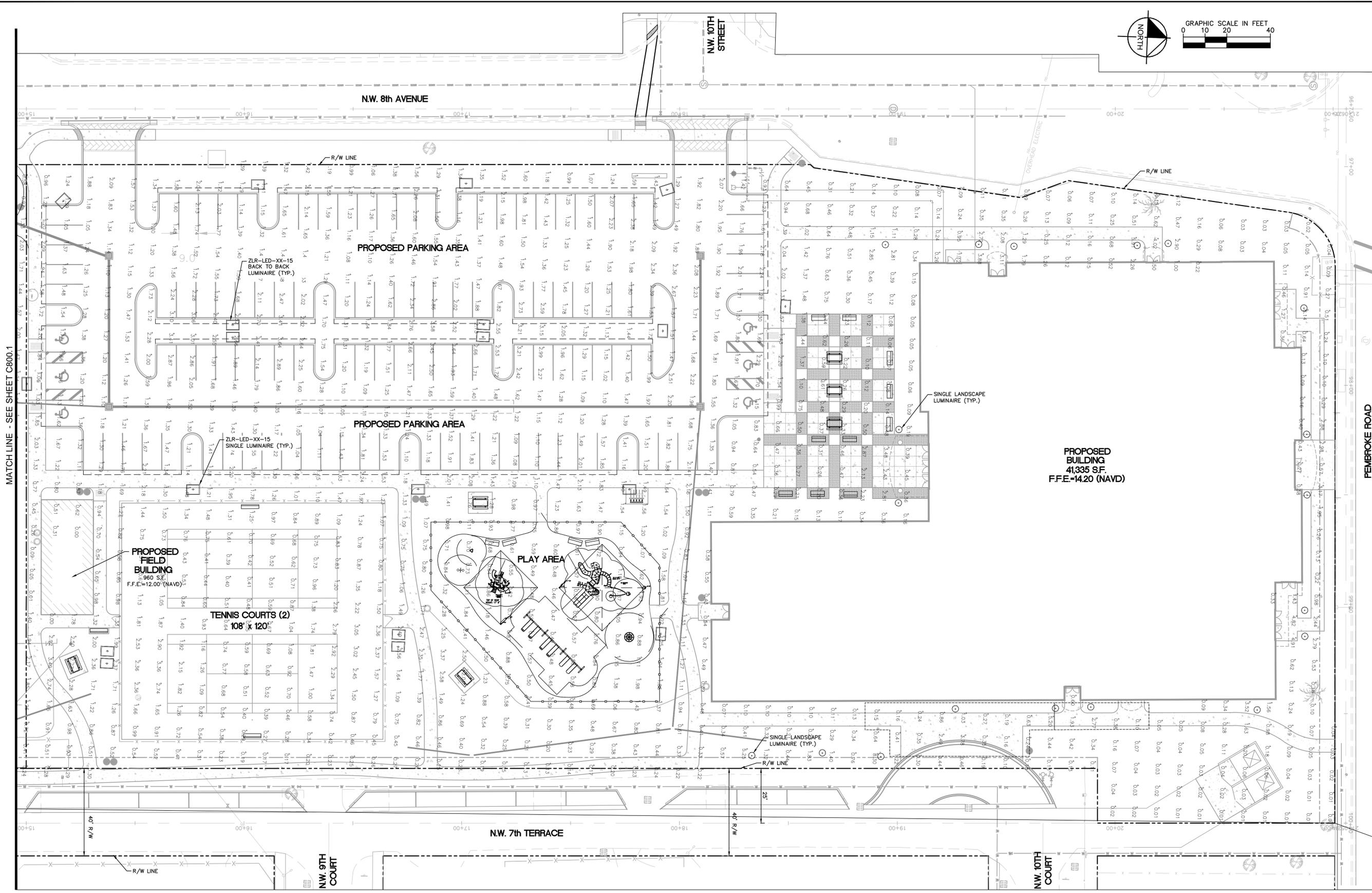
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C800.1

No.	REVISIONS	DATE

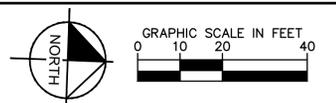
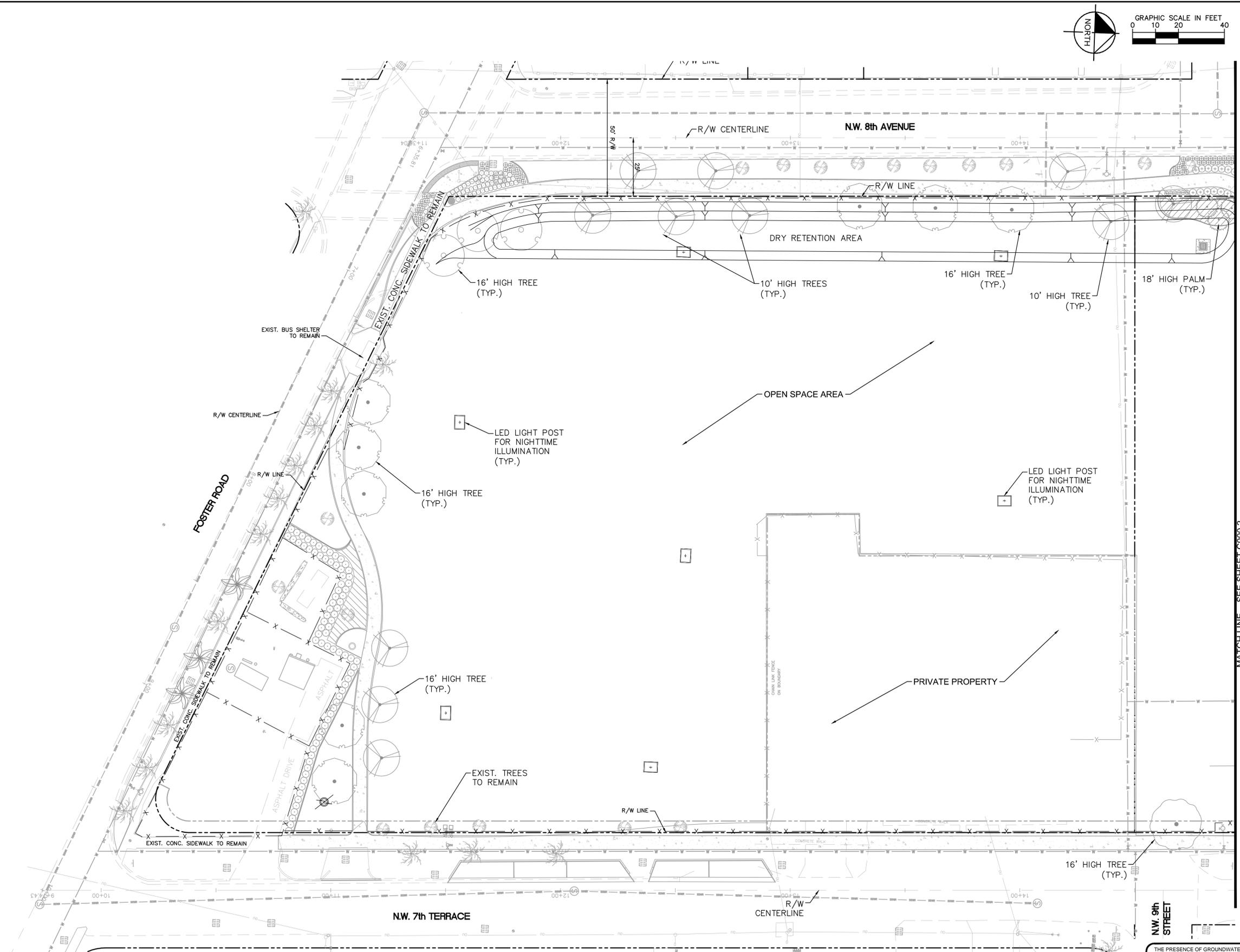
KHA PROJECT 043645000 DATE 08/04/2014 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY SFV

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM CA 0000696

Plotted By: Florian, Carlos Sheet: 043645000 - Layout: C800.2 PHOTOMETRICS PLAN - February 12, 2015 07:52:15am - K:\V\civil\043645000-ob johnson park\CADD\plan\sheet\C800.1 45000 PHOTOMETRICS PLAN.dwg
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MATCHLINE - SEE SHEET C900.2

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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DIAL 811

Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL	STEFANO F. VIOLA
KHA PROJECT	043645000
DATE	08/04/2014
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	SFV
DATE	02/12/15

CPTED PLAN

OB JOHNSON PARK
 PREPARED FOR
CITY OF HALLANDALE BEACH
 FLORIDA
 BROWARD COUNTY

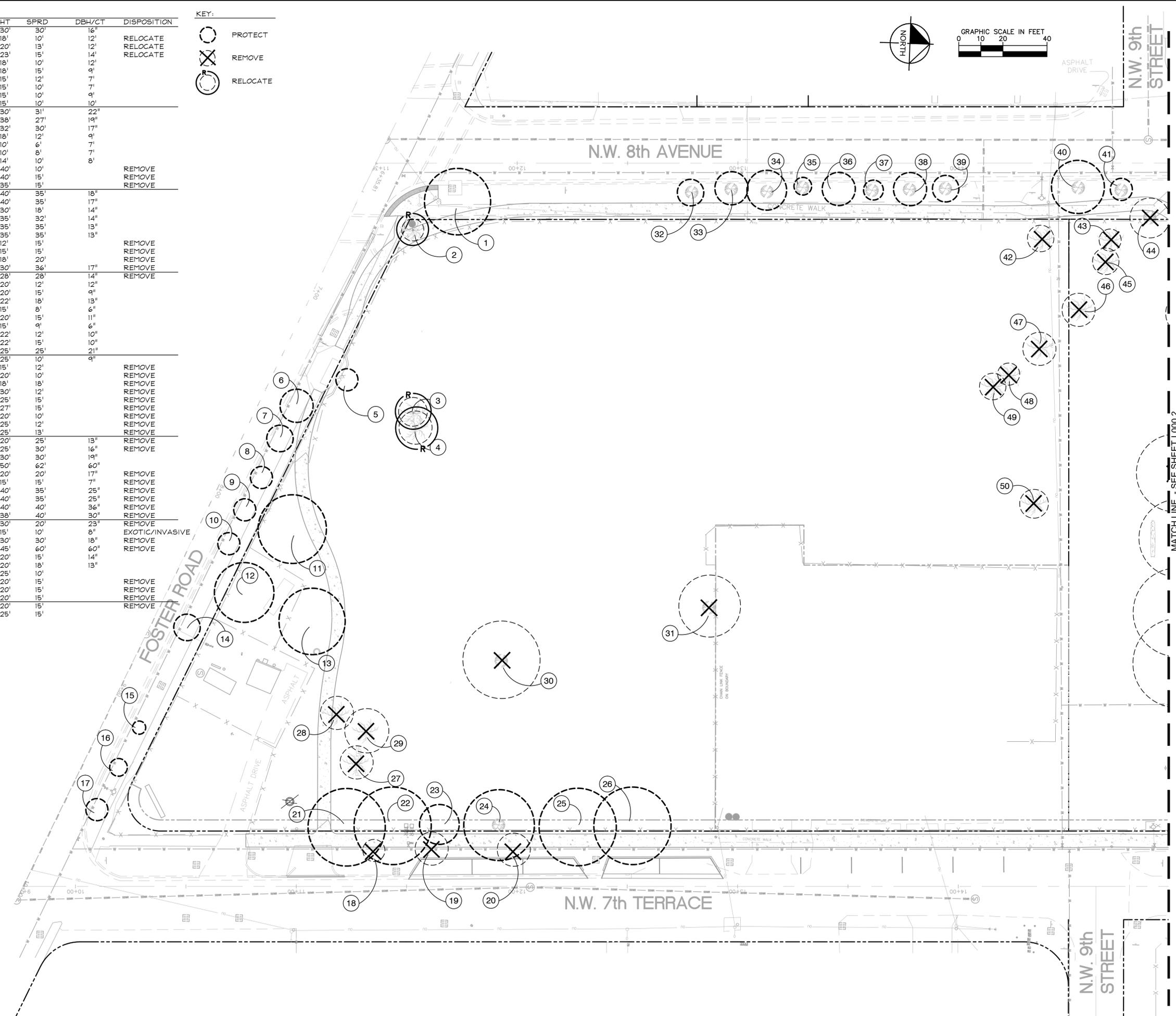
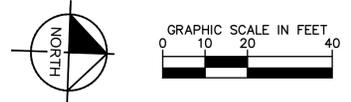
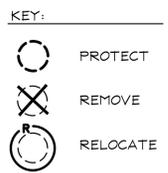
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C900.1

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TREE DISPOSITION:						
#	BOTANICAL NAME	COMMON NAME	HT	SPRD	DBH/CT	DISPOSITION
1	Swietenia mahagoni	Mahogany	30'	30'	16"	
2	Kodyetia bifurcata	Foxtail Palm	18'	10'	12"	RELOCATE
3	Kodyetia bifurcata	Foxtail Palm	20'	13'	12"	RELOCATE
4	Kodyetia bifurcata	Foxtail Palm	23'	10'	14"	RELOCATE
5	Kodyetia bifurcata	Foxtail Palm	18'	10'	12"	
6	Kodyetia bifurcata	Foxtail Palm	18'	15'	9"	
7	Kodyetia bifurcata	Foxtail Palm	15'	12'	7"	
8	Kodyetia bifurcata	Foxtail Palm	15'	10'	7"	
9	Kodyetia bifurcata	Foxtail Palm	15'	10'	9"	
10	Kodyetia bifurcata	Foxtail Palm	15'	10'	10"	
11	Bursera simaruba	Gumbo Limbo	30'	31'	22"	
12	Bucida buceras	Black Olive	38'	27'	19"	
13	Bucida buceras	Black Olive	32'	30'	17"	
14	Kodyetia bifurcata	Foxtail Palm	18'	12'	9"	
15	Kodyetia bifurcata	Foxtail Palm	10'	6'	7"	
16	Kodyetia bifurcata	Foxtail Palm	10'	8'	7"	
17	Kodyetia bifurcata	Foxtail Palm	14'	10'	8"	
18	Roystonea regia	Royal Palm	40'	10'		REMOVE
19	Roystonea regia	Royal Palm	40'	15'		REMOVE
20	Roystonea regia	Royal Palm	35'	15'		REMOVE
21	Bucida buceras	Black Olive	40'	35'	18"	
22	Bucida buceras	Black Olive	40'	35'	17"	
23	Bucida buceras	Black Olive	30'	18'	14"	
24	Bucida buceras	Black Olive	35'	32'	14"	
25	Bucida buceras	Black Olive	35'	35'	13"	
26	Bucida buceras	Black Olive	35'	35'	13"	
27	Veitchia montgomeryana	Montgomery Palm	12'	15'		REMOVE
28	Syagrus romanzoffiana	Queen Palm	15'	15'		REMOVE
29	Syagrus romanzoffiana	Queen Palm	18'	20'		REMOVE
30	Bucida buceras	Black Olive	30'	36'	17"	REMOVE
31	Ficus	Ficus	28'	28'	14"	
32	Bursera simaruba	Gumbo Limbo	20'	12'	12"	
33	Bursera simaruba	Gumbo Limbo	20'	15'	9"	
34	Bursera simaruba	Gumbo Limbo	22'	18'	13"	
35	Bursera simaruba	Gumbo Limbo	15'	8'	6"	
36	Bursera simaruba	Gumbo Limbo	20'	15'	6"	
37	Bursera simaruba	Gumbo Limbo	15'	9'	6"	
38	Bursera simaruba	Gumbo Limbo	22'	12'	10"	
39	Bursera simaruba	Gumbo Limbo	22'	15'	10"	
40	Bursera simaruba	Gumbo Limbo	25'	25'	21"	
41	Bursera simaruba	Gumbo Limbo	25'	10'	9"	
42	Syagrus romanzoffiana	Queen Palm	15'	12'		REMOVE
43	Syagrus romanzoffiana	Queen Palm	20'	10'		REMOVE
44	Syagrus romanzoffiana	Queen Palm	18'	18'		REMOVE
45	Syagrus romanzoffiana	Queen Palm	30'	12'		REMOVE
46	Syagrus romanzoffiana	Queen Palm	25'	15'		REMOVE
47	Syagrus romanzoffiana	Queen Palm	27'	15'		REMOVE
48	Syagrus romanzoffiana	Queen Palm	20'	10'		REMOVE
49	Syagrus romanzoffiana	Queen Palm	25'	12'		REMOVE
50	Syagrus romanzoffiana	Queen Palm	25'	13'		REMOVE
51	Swietenia mahagoni	Mahogany	20'	25'	13"	REMOVE
52	Swietenia mahagoni	Mahogany	25'	30'	16"	REMOVE
53	Swietenia mahagoni	Mahogany	30'	30'	19"	
54	Ficus	Ficus	50'	62'	60"	
55	Swietenia mahagoni	Mahogany	20'	17'	17"	REMOVE
56	Swietenia mahagoni	Mahogany	15'	15'	7"	REMOVE
57	Swietenia mahagoni	Mahogany	40'	35'	25"	REMOVE
58	Swietenia mahagoni	Mahogany	40'	35'	25"	REMOVE
59	Ficus	Ficus	40'	40'	36"	REMOVE
60	Ficus	Ficus	38'	40'	30"	REMOVE
61	Swietenia mahagoni	Mahogany	30'	20'	23"	REMOVE
62	Schinus terebinthifolius	Brazilian Pepper	15'	10'	8"	EXOTIC/INVASIVE
63	Swietenia mahagoni	Mahogany	30'	30'	18"	REMOVE
64	Ficus	Ficus	45'	60'	60"	REMOVE
65	Quercus virginiana	Live Oak	20'	15'	14"	
66	Quercus virginiana	Live Oak	20'	18'	13"	
67	Roystonea regia	Royal Palm	25'	10'		REMOVE
68	Cocos nucifera	Coconut Palm	20'	15'		REMOVE
69	Syagrus romanzoffiana	Queen Palm	20'	15'		REMOVE
70	Syagrus romanzoffiana	Queen Palm	20'	15'		REMOVE
71	Syagrus romanzoffiana	Queen Palm	20'	15'		REMOVE
72	Roystonea regia	Royal Palm	25'	15'		REMOVE

CALCULATIONS:

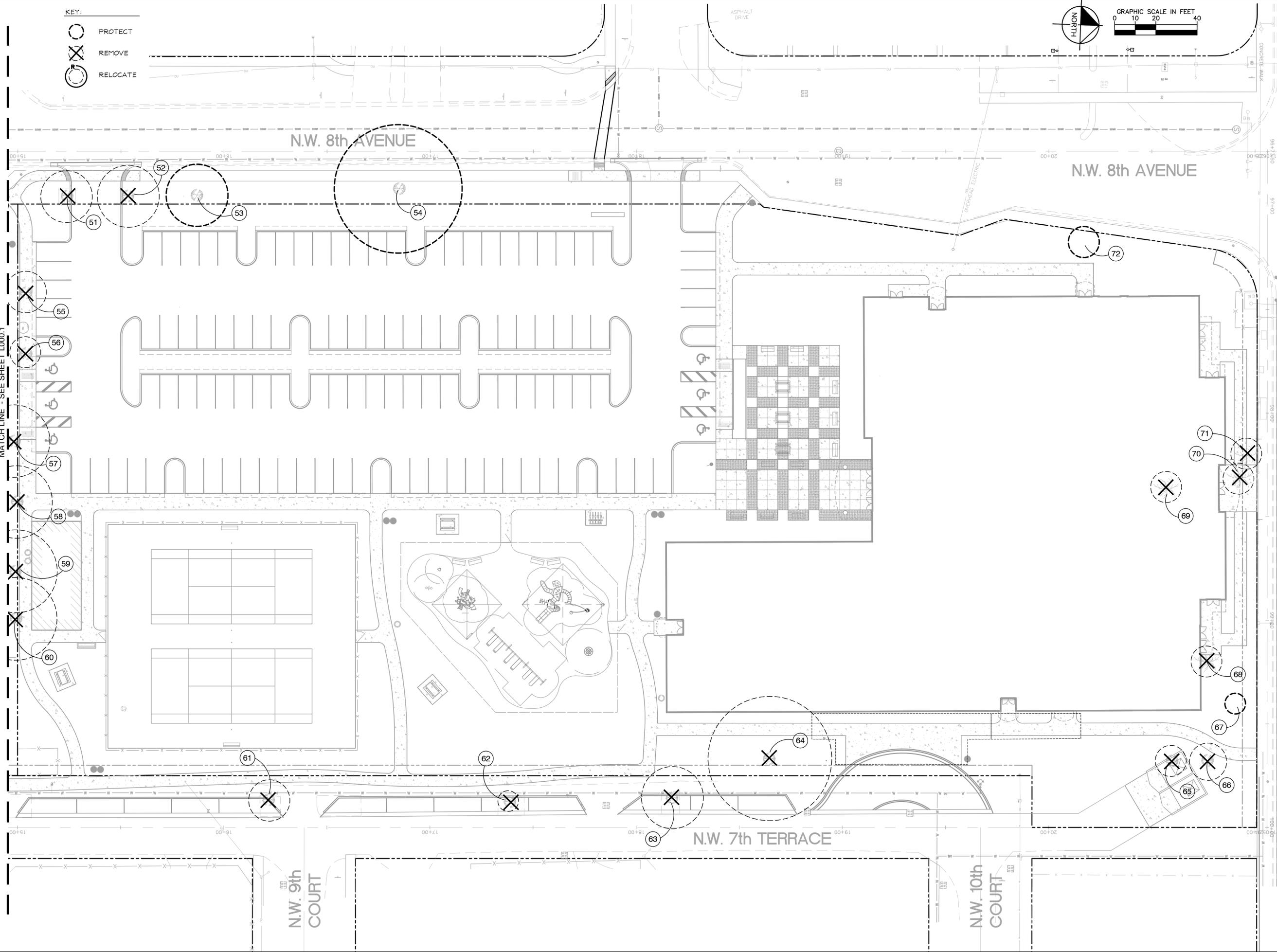
NUMBER OF PALMS REMOVED:	18
NUMBER OF TREES REMOVED:	13
NUMBER OF TREES RELOCATED:	3



Kimley»Horn	LICENSED PROFESSIONAL JONATHAN D. HAIGH FLORIDA LICENSE NUMBER LA 6666795 DATE: 02/02/2015			
TREE DISPOSITION PLAN MATCH LINE - SEE SHEET L000.2				
OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH BROWARD COUNTY FLORIDA				
SHEET NUMBER				DATE
L000.1				No.

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- KEY:**
-  PROTECT
 -  REMOVE
 -  RELOCATE

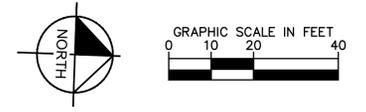


PEMBROKE ROAD

OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH <small>BROWARD COUNTY FLORIDA</small>	TREE DISPOSITION PLAN	Kimley»Horn <small>600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696</small>
KHA PROJECT 04.3645000 DATE 02/02/2015 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY JDH	LICENSED PROFESSIONAL JONATHAN D. HAIGH FLORIDA LICENSE NUMBER LA 6666795 DATE: 02/02/2015	REVISIONS No. _____ BY _____ DATE _____
SHEET NUMBER	L000.2	

PLANT SCHEDULE

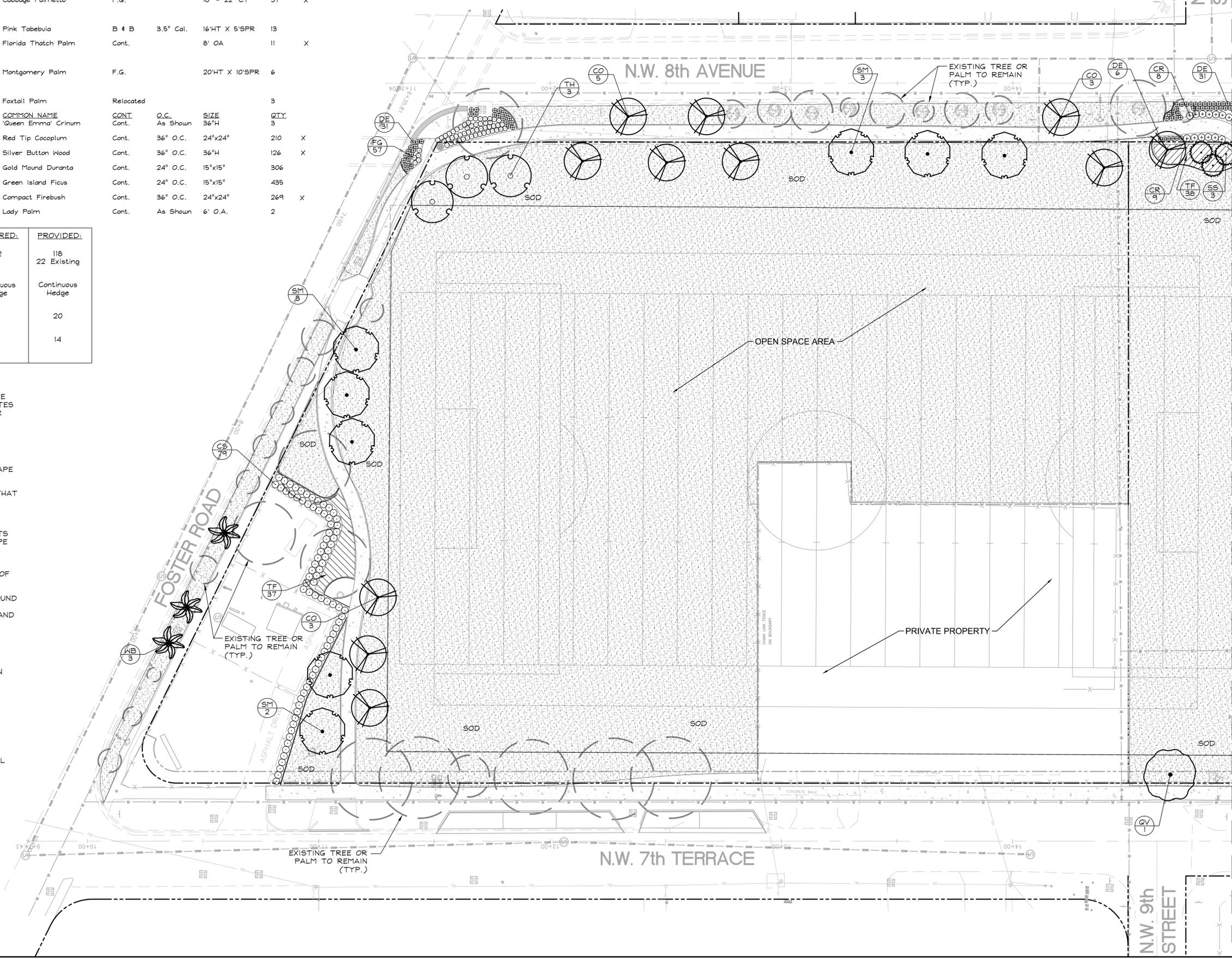
TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY	NATIVE	SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY	NATIVE	
BS	Bursera simaruba	Gumbo Limbo	B # B	3.5" Cal.	16"HT X 6"SPR	2	X	TF	Tripsacum Floridae	Dwarf Fakahatchee Grass	3 gal	36" O.C.	18" H.	267	X	
CO	Cordia sebestena	Orange Geiger Tree	B # B	2" Cal.	10"HT X 4"SPR	28	X	GROUND COVERS	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal	12" O.C.	12" H.	783		
QR	Quercus virginiana	Southern Live Oak	Cont.	3.5" Cal.	16"HT X 6"SPR	27	X	IN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	3 gal	12" O.C.	10" x 10"	589	X	
RR	Roystonea regia	Royal Palm	F.G.		18" GW	22	X	SOD	Stenotaphrum secundatum 'Floratum'	Floratum St. Augustine Sod	sod					± 122,855 sf
SM	Suaeda mahagoni	West Indian Mahogany	B # B	3.5" Cal.	16"HT X 5"SPR	10	X									
SS	Sabal palmetto	Cabbage Palmetto	F.G.		18' - 22' CT	37	X									
TH	Tabebuia heterophylla	Pink Tabebuia	B # B	3.5" Cal.	16"HT X 5"SPR	13										
TR	Thrinax radiata	Florida Thatch Palm	Cont.		8' OA	11	X									
VM	Veitchia montgomeryana	Montgomery Palm	F.G.		20"HT X 10"SPR	6										
WB	Wodyetia bifurcata	Foxtail Palm	Relocated			3										
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT.	O.C.	SIZE	QTY										
CO	Crinum augustum 'Queen Emma'	'Queen Emma' Crinum	Cont.	As Shown	36"H	3										
CR	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	36" O.C.	24"x24"	210	X									
CS	Conocarpus erectus sericeus	Silver Button Wood	Cont.	36" O.C.	36"H	126	X									
DE	Duranta erecta 'Gold Mound'	Gold Mound Duranta	Cont.	24" O.C.	15"x15"	306										
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	Cont.	24" O.C.	15"x15"	435										
HC	Hamelia patens 'Compacta'	Compact Firebush	Cont.	36" O.C.	24"x24"	269	X									
RE	Rhapis excelsa	Lady Palm	Cont.	As Shown	6' O.A.	2										



CODE COMPLIANCE:	REQUIRED:	PROVIDED:
SEC.32-384 (c): Trees - 1 Tree/1500 SF of total project site area (257,782/1500 = 172)	172	118 22 Existing
SEC.32-384 (e): Perimeter Landscape - Landscape buffer strips required around perimeter of all vehicular use areas.	Continuous Hedge	Continuous Hedge
SEC.32-384 (f): Interior Landscape - 1 Tree per parking lot island	19	20
- 50% of required trees within parking lot islands to be shade trees	10	14

PLANTING NOTES:

- CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
- PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
- PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
- ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
- CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
- ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.



DATE: 02/02/2015

CHECKED BY: JDH

DRAWN BY: JDH

DESIGNED BY: JDH

SCALE: AS SHOWN

DATE: 02/02/2015

KHA PROJECT: 043645000

LICENSED PROFESSIONAL: JONATHAN D. HAIGH

Kimley»Horn

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM CA 00000696

DATE: 02/02/2015

REVISIONS:

BY:

OB JOHNSON PARK

PREPARED FOR

CITY OF HALLANDALE

BEACH

BROWARD COUNTY FLORIDA

LANDSCAPE PLAN

DATE: 02/02/2015

CHECKED BY: JDH

DRAWN BY: JDH

DESIGNED BY: JDH

SCALE: AS SHOWN

DATE: 02/02/2015

KHA PROJECT: 043645000

LICENSED PROFESSIONAL: JONATHAN D. HAIGH

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SCALE: AS SHOWN

DATE: 02/02/2015

KHA PROJECT: 043645000

LICENSED PROFESSIONAL: JONATHAN D. HAIGH

SHEET NUMBER

L100.1

DATE: 02/02/2015

CHECKED BY: JDH

DRAWN BY: JDH

DESIGNED BY: JDH

SCALE: AS SHOWN

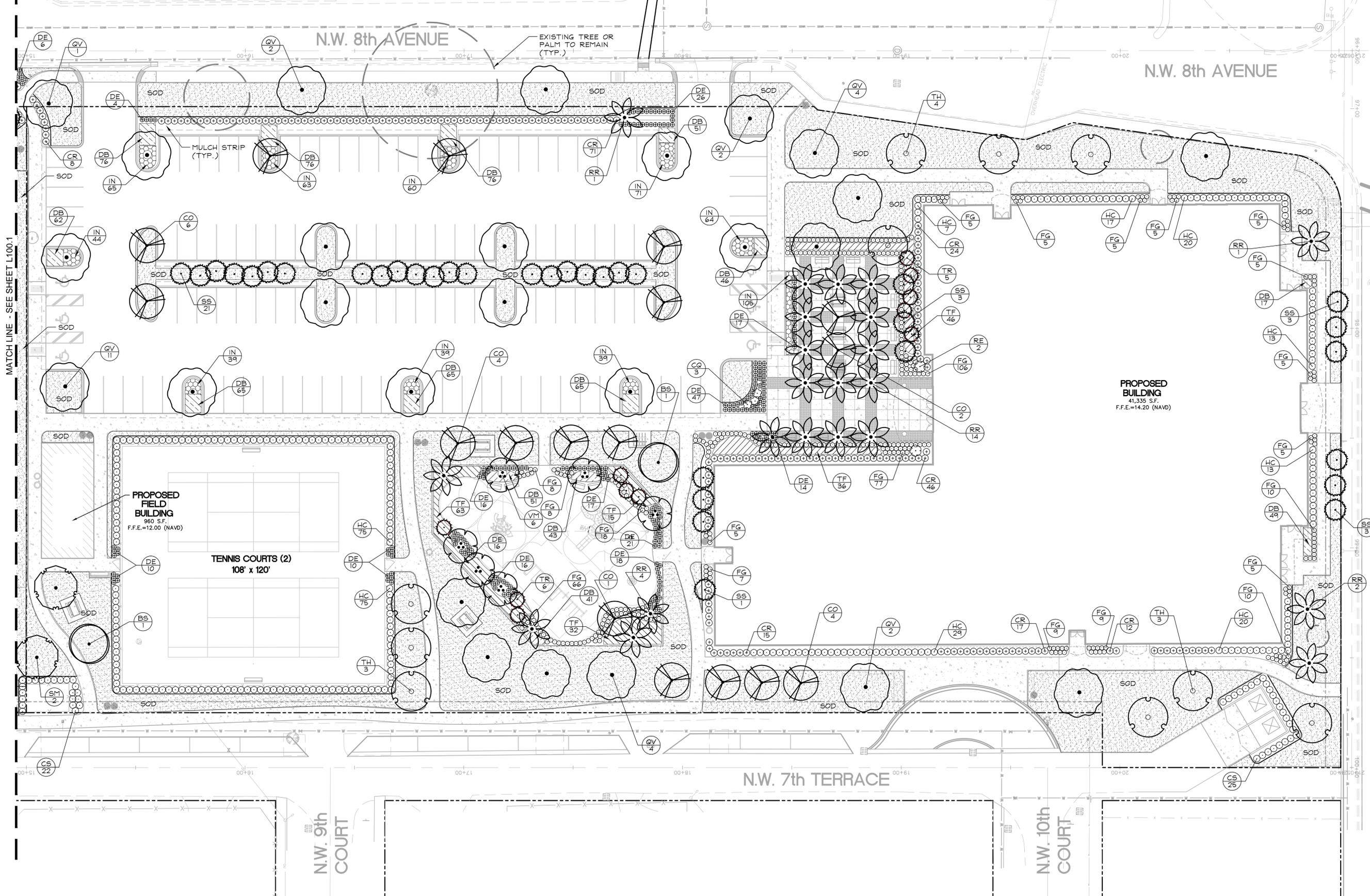
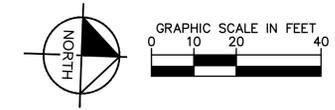
DATE: 02/02/2015

KHA PROJECT: 043645000

LICENSED PROFESSIONAL: JONATHAN D. HAIGH

PLANT SCHEDULE

TREES	COMMON NAME	TH	Pink Tabebuia	SHRUBS	COMMON NAME	RE	Lady Palm
BS	Gumbo Limbo	TR	Florida Thatch Palm	CR	Red Tip Cocoplum	SHRUB AREAS	COMMON NAME
CO	Orange Geiger Tree	VM	Montgomery Palm	CS	Silver Button Wood	TF	Dwarf Fakahatchee Grass
QV	Southern Live Oak	WB	Foxtail Palm	DE	Gold Mound Duranta	GROUND COVERS	COMMON NAME
RR	Royal Palm			FG	Green Island Ficus	DB	Blueberry Flax Lily
SM	West Indian Mahogany			IN	Dwarf Yaupon Holly	IN	Dwarf Yaupon Holly
SS	Cabbage Palmetto			HC	Compact Firebush	SOD	Florata St. Augustine Sod

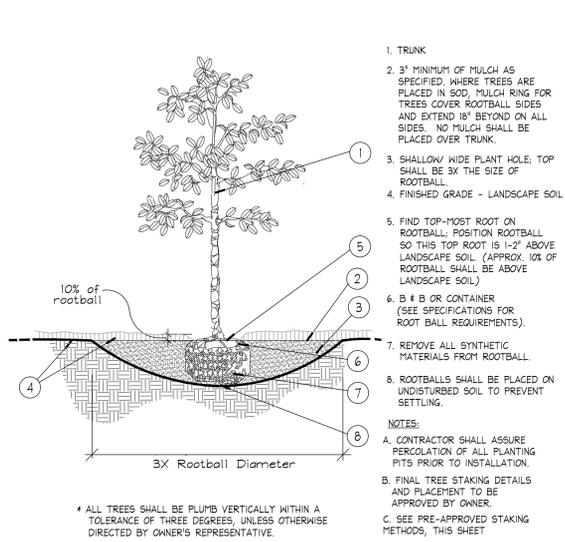


PROPOSED BUILDING
41,335 S.F.
F.F.E.=14.20 (NAVD)

MATCH LINE - SEE SHEET L100.1

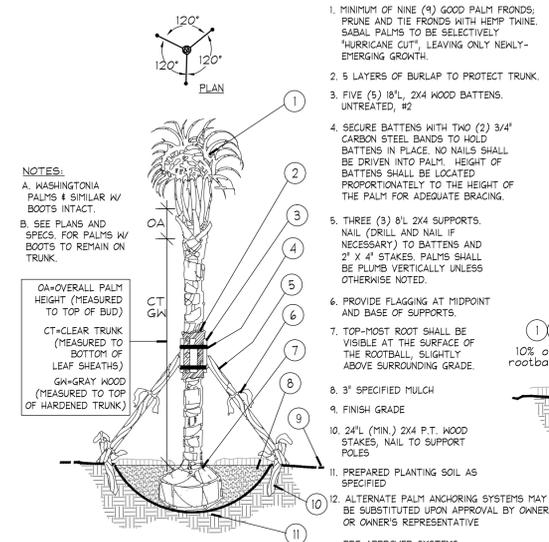
Kimley»Horn		600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696
KHA PROJECT 04.3645000	LICENSED PROFESSIONAL	DATE 02/02/2015
SCALE AS SHOWN	JONATHAN D. HAIGH	FLORIDA LICENSE NUMBER LA 6666795
DRAWN BY	LA 6666795	CHECKED BY J.D.H.
SHEET NUMBER L100.2	DATE 02/02/2015	REVISIONS
OB JOHNSON PARK		FLORIDA
PREPARED FOR CITY OF HALLANDALE BEACH		BROWARD COUNTY
LANDSCAPE PLAN		DATE

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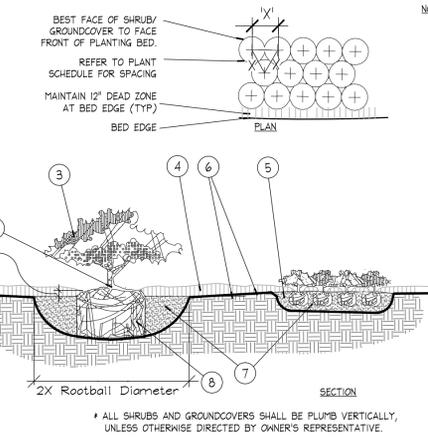
1. TRUNK
 2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOIL, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
 3. SHALLOW WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
 4. FINISHED GRADE - LANDSCAPE SOIL
 5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
 6. B & B OR CONTAINER (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
 7. REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL FROM ROOTBALL.
 8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.
- NOTES:
 A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
 B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
 C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

A Tree Planting SECTION NTS



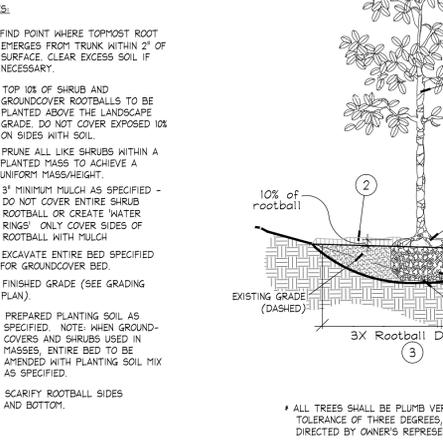
1. MINIMUM OF NINE (9) GOOD PALM FRONDS; PRUNE AND TIE FRONDS WITH HEMP TWINE. SABAL PALMS TO BE SELECTIVELY "HURRICANE CUT", LEAVING ONLY NEWLY-EMERGING GROWTH.
 2. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
 3. FIVE (5) 1/2" x 2 1/2" x 24" WOOD BATTENS, UNGRADED, #2
 4. SECURE BATTENS WITH TWO (2) 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED PROPORTIONATELY TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
 5. THREE (3) 8" x 24" SUPPORTS, NAIL (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" x 4" STAKES. PALMS SHALL BE PLUMB VERTICALLY UNLESS OTHERWISE NOTED.
 6. PROVIDE FLAGGING AT MIDPOINT AND BASE OF SUPPORTS.
 7. TOP-MOST ROOT SHALL BE VISIBLE AT THE SURFACE OF THE ROOTBALL, SLIGHTLY ABOVE SURROUNDING GRADE.
 8. 3" SPECIFIED MULCH
 9. FINISH GRADE
 10. 24" (MIN.) 2x4 P.T. WOOD STAKES, NAIL TO SUPPORT POLES
 11. PREPARED PLANTING SOIL AS SPECIFIED
 12. ALTERNATE PALM ANCHORING SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE.
- PRE-APPROVED SYSTEMS:
 • BROOKS TREE BRACE SYSTEM
 • HARBOR TIE TREE BRACING
- NOTES:
 A. WASHINGTONIA PALMS & SIMILAR W/ BOOTS INTACT.
 B. SEE PLANS AND SPECS. FOR PALMS W/ BOOTS TO REMAIN ON TRUNK.
 OA-OVERALL PALM HEIGHT (MEASURED TO TOP OF BUD)
 CT-CLEAR TRUNK (MEASURED TO BOTTOM OF LEAF SHEATHS)
 GW-GROWING WOOD (MEASURED TO TOP OF HARDENED TRUNK)

B Palm Planting and Staking SECTION NTS



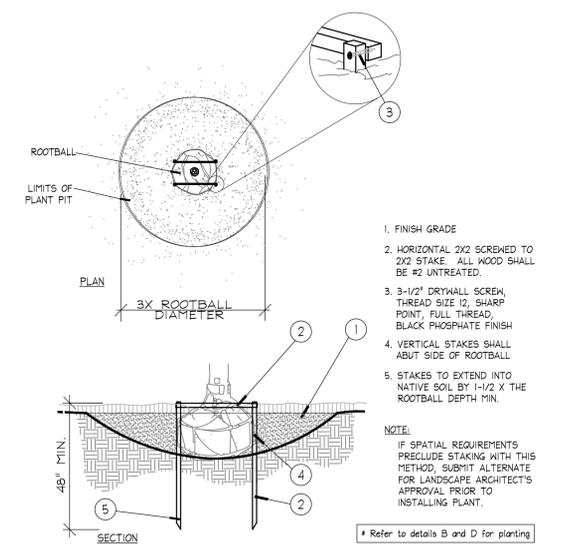
1. FINISH GRADE
 2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
 3. FILTER CLOTH, MIRAFI 500X OR BETTER
 4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
 5. SLOPE BOTTOM TO DRAIN
 6. #18# AUGURED HOLE PENETRATE THROUGH OCCULUSING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
 7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
 8. WATER TABLE (DEPTH VARIES)
- NOTE:
 FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.
 REFER TO NOTE 0.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C Shrub / Groundcover Planting PLAN/SECTION NTS



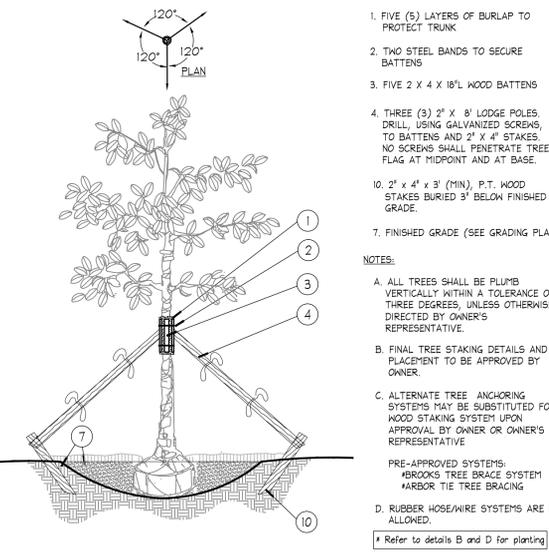
1. TREES, PALMS, AND LARGE SHRUBS (5 GAL OR GREATER) SHALL BE PLANTED IN SIMILAR MANNER
 2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOIL, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
 3. SHALLOW WIDE PLANT HOLE. TOP SHALL BE 3X THE SIZE OF ROOTBALL.
 4. FINISHED GRADE - LANDSCAPE SOIL
 5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
 6. BERM SOIL SO THAT TOP OF BERM IS JUST BELOW THE TOP 10% OF THE TOP OF THE ROOTBALL. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE.
 7. B & B OR CONTAINER REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL. (SEE SPECIFICATIONS FOR OTHER ROOT BALL REQUIREMENTS)
 8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.
- NOTES:
 A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
 B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
 C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

D Planting on a Slope SECTION NTS



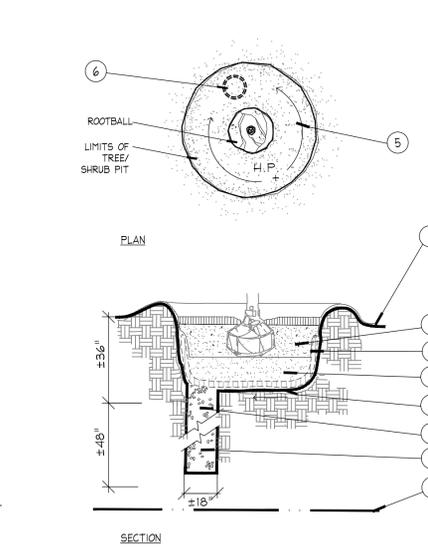
1. FINISH GRADE
 2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
 3. 3-1/2" DRYWALL SCREW, THREAD SIDE TO SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
 4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
 5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2' X THE ROOTBALL DEPTH MIN.
- NOTE:
 IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

E Staking - up to 65 gal. or B&B to 3-1/2" Cal. PLAN/SECTION NTS



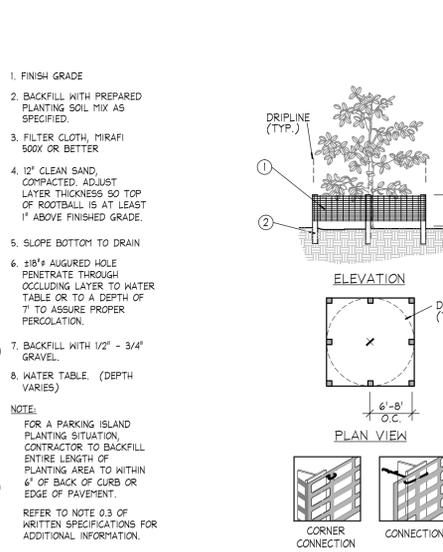
1. FIVE (5) LAYERS OF BURLAP TO PROTECT TRUNK
 2. TWO STEEL BANDS TO SECURE BATTENS
 3. FIVE 2 x 4 x 18" L WOOD BATTENS
 4. THREE (3) 2" x 8" LODGE POLES DRILL, USING GALVANIZED SCREENS, TO BATTENS AND 2" x 4" STAKES. NO SCREENS SHALL PENETRATE TREE. FLAG AT MIDPOINT AND AT BASE.
 10. 2" x 4" x 3' (MIN.) P.T. WOOD STAKES BURIED 3" BELOW FINISHED GRADE.
 7. FINISHED GRADE (SEE GRADING PLAN)
- NOTES:
 A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
 B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
 C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE.
 D. RUBBER HOSE/WIRE SYSTEMS ARE NOT ALLOWED.
- PRE-APPROVED SYSTEMS:
 • BROOKS TREE BRACE SYSTEM
 • HARBOR TIE TREE BRACING

F Large Tree Staking - 100 Gal + or B&B 4" + SECTION NTS



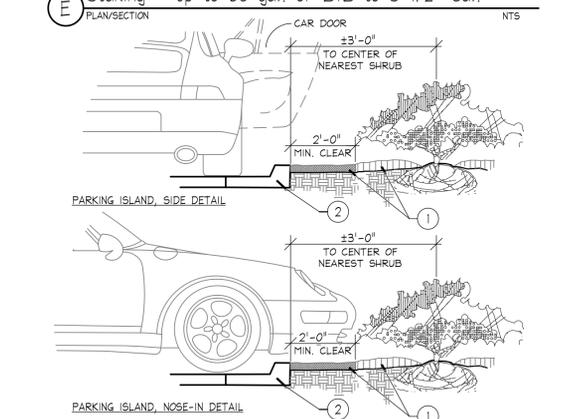
1. FINISH GRADE
 2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
 3. FILTER CLOTH, MIRAFI 500X OR BETTER
 4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
 5. SLOPE BOTTOM TO DRAIN
 6. #18# AUGURED HOLE PENETRATE THROUGH OCCULUSING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
 7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
 8. WATER TABLE (DEPTH VARIES)
- NOTE:
 FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.
 REFER TO NOTE 0.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

G Poor Drainage Condition PLAN/SECTION NTS



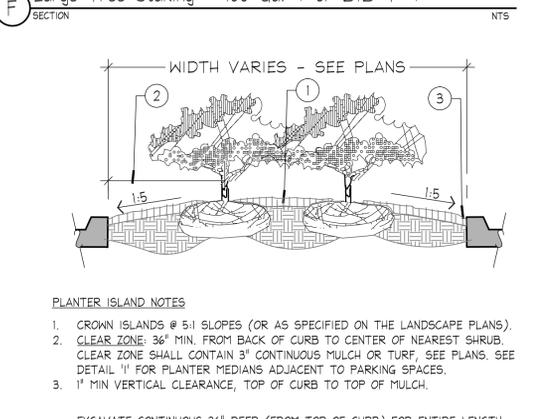
1. FINISH GRADE
 2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
 3. FILTER CLOTH, MIRAFI 500X OR BETTER
 4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
 5. SLOPE BOTTOM TO DRAIN
 6. #18# AUGURED HOLE PENETRATE THROUGH OCCULUSING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
 7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
 8. WATER TABLE (DEPTH VARIES)
- NOTE:
 FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.
 REFER TO NOTE 0.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

H Tree/Shrub Protector SECTION NTS



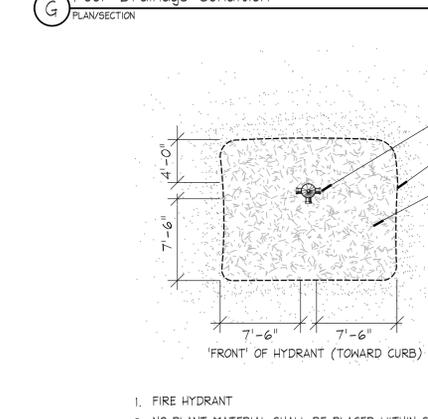
1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE 3" DEEP. NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE
2. CURB OR PARKING LOT EDGE, BY OTHERS

I Parking Space/Curb Planting SECTION NTS



- PLANTER ISLAND NOTES
1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
 2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF. SEE PLANS. SEE DETAIL 'I' FOR PLANTER MEDIANS ADJACENT TO PARKING SPACES.
 3. 1' MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.
- EXCAVATE CONTINUOUS 36" DEEP (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
 - PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
 - ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

J Planted Parking Lot Islands / Medians SECTION NTS

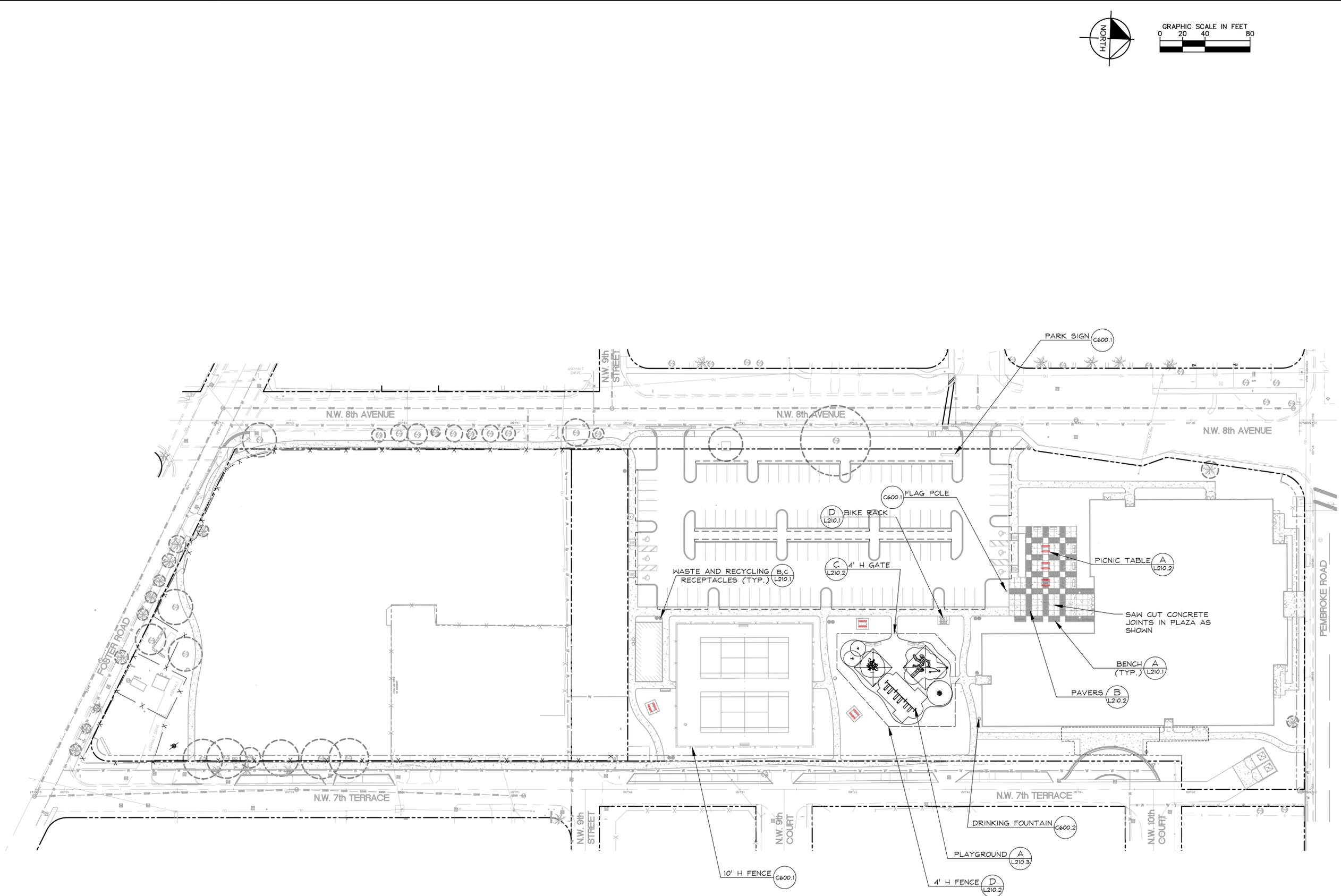


1. FIRE HYDRANT
2. NO PLANT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. PROVIDE A MULCH, 3" DEPTH MIN., SURROUNDING AREA INDICATED.

K Fire Hydrant Clear Zone PLAN NTS

KIMLEY-HORN		DATE	
600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324		REVISIONS	
PHONE: 954-535-5100 FAX: 954-739-2247		No.	
WWW.KIMLEY-HORN.COM CA 00000696		BY	
LISCENSED PROFESSIONAL		DATE	
KHA PROJECT 04.3645000		02/02/2015	
DESIGNED BY		SCALE AS SHOWN	
DRAWN BY		CHECKED BY	
JONATHAN D. HAIGH		J.D.H.	
FLORIDA LICENSE NUMBER		DATE: 02/02/2015	
LA 6666795			
LANDSCAPE DETAILS			
OB JOHNSON PARK		FLORIDA	
PREPARED FOR		BROWARD COUNTY	
CITY OF HALLANDALE		BEACH	
SHEET NUMBER			
L110.1			

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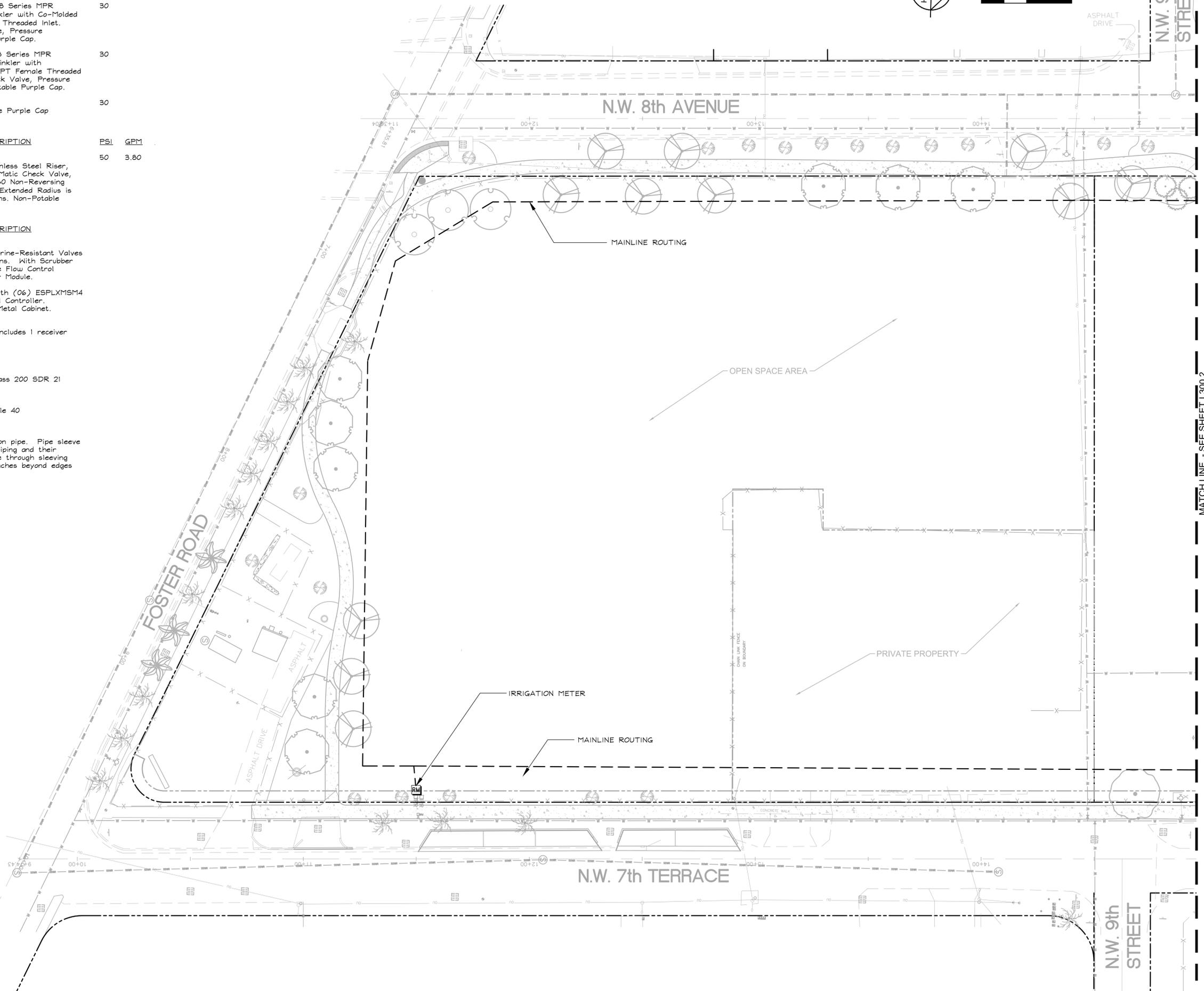
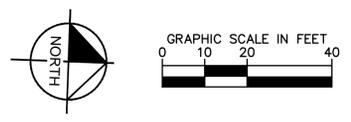


OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH <small>BROWARD COUNTY FLORIDA</small>	HARDSCAPE PLAN	<p style="font-size: small;">600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 0000696</p>
KHA PROJECT 04.3645000 DATE 02/02/2015 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY JDH	LICENSED PROFESSIONAL JONATHAN D. HAIGH FLORIDA LICENSE NUMBER LA 6666795 DATE: 02/02/2015	REVISIONS No. BY DATE
SHEET NUMBER L200.1		

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IRRIGATION SCHEDULE

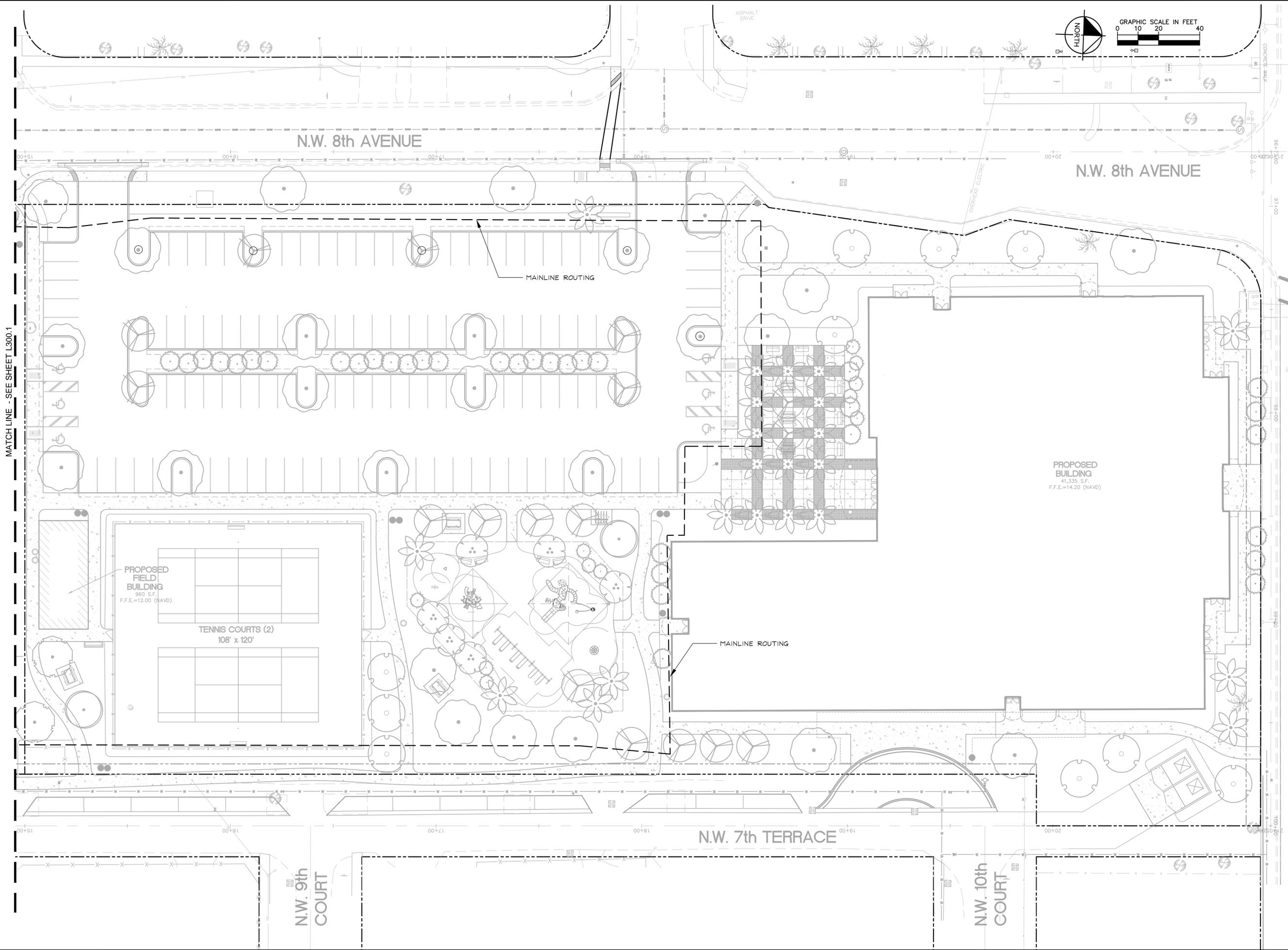
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM
	Rain Bird 1806-SAM-PRS-NP 8 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, Pressure Regulating, and Non Potable Purple Cap.	30	
	Rain Bird 1812-SAM-PRS-NP 8 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, Pressure Regulating Device, and Non-Potable Purple Cap.	30	
	Rain Bird 1800-1400 Flood Flood Bubbler with Non-Potable Purple Cap on IPS flex hose, per detail.	30	
	Rain Bird 8005-SS-NP Rain Bird 8005-SS-NP Turf Rotor, 5.0" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve, Adjustable 50-330 arc, and 360 Non-Reversing Full-Circle. 1" (26/34) NPT. Extended Radius is Ideal for Large Turf Applications. Non-Potable Purple Cover.	50	3.80
	Rain Bird PESBR-PRS-D 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, Purple Flow Control Handle, and Pressure Regulator Module.		
	Rain Bird ESP8LXME-LXMM with (06) ESPLXMSM4 32 Station Capable Commercial Controller. Mounted on a Powder-Coated Metal Cabinet.		
	Rain Bird WR2-RC Wireless Rain Sensor Combo, includes 1 receiver and 1 rain sensor transmitter.		
	Water Meter 2" Reclaimed Meter		
	Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. Non-Potable Purple.		
	Irrigation Mainline: PVC Schedule 40 Non-Potable Purple.		
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction. Non-Potable Purple.		



MATCH LINE - SEE SHEET L300.2

Kimley»Horn	
LICENSED PROFESSIONAL JONATHAN D. HAIGH FLORIDA LICENSE NUMBER LA 6666795 600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696	
KHA PROJECT 043645000 DATE 02/02/2015 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY JDH	DATE: 02/02/2015 REVISIONS No. DATE BY
IRRIGATION PLAN	
OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH BROWARD COUNTY FLORIDA	
SHEET NUMBER L300.1	

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MATCH LINE - SEE SHEET L300.1

OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH <small>BROWARD COUNTY FLORIDA</small>		IRRIGATION PLAN		KHA PROJECT 04.3645000		LICENSED PROFESSIONAL	
				DATE 02/02/2015		JONATHAN D. HAIGH FLORIDA LICENSE NUMBER LA 6666795	
SHEET NUMBER L300.2		SCALE AS SHOWN		DRAWN BY J.D.H.		DATE: 02/02/2015	
REVISIONS		No.		DATE		BY	

Kimley»Horn

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM CA 00000696

PEMBROKE ROAD

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UNDERGROUND IRRIGATION SYSTEM

PART I: GENERAL
1.01 SCOPE

- A. The work covered by this specification shall include the furnishing of all labor, materials, tools and equipment necessary to perform and complete the installation of an automatic irrigation system as specified herein and as shown on the drawings and any incidental work not shown or specified which can reasonably be determined to be part of the work and necessary to provide a complete and functional system.
B. The work covered by this specification also includes all permits, federal, state and local taxes and all other costs, both foreseeable and unforeseeable at the time of construction.
C. No deviation from these specifications, the accompanying drawings, or agreement is authorized or shall be made without prior written authorization signed by the Owner or his duly appointed representative.

1.02 QUALITY ASSURANCE

- D. Installer Qualifications: A firm specializing in irrigation work with not less than five (5) years of experience in installing irrigation systems similar to those required for this project.
E. Coordination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and efficiently as possible.
F. Inspection of Site: The Contractor shall acquaint himself with all site conditions, including underground utilities before construction is to begin. Contractor shall coordinate placement of underground materials with contractors previously working underground in the vicinity or those scheduled to do underground work in the vicinity. Contractor is responsible for minor adjustments in the layout of the work to accommodate existing facilities.
G. Protection of Existing Plants and Site Conditions: The Contractor shall take necessary precautions to protect site conditions to remain. Should damages be incurred, this Contractor shall repair the damage to its original condition at his own expense. Any disruption, destruction, or disturbance of any existing plant, tree, shrub, or turf, or any structure shall be completely restored to the satisfaction of the Owner and his representatives, solely at the Contractor's expense.
H. Protection of Work and Property: The Contractor shall be liable for and shall take the following actions as required with regard to damage to any of the Owner's property.

1. Any existing building, equipment, piping, pipe coverings, electrical systems, sewers, sidewalks, roads, grounds, landscaping or structure of any kind (including without limitation, damage from leaks in the piping system being installed or having been installed by Contractor) damaged by the Contractor, or by his agents, employees, or subcontractors, during the course of his work, whether through negligence or otherwise, shall be replaced or repaired by Contractor at his own expense in a manner satisfactory to Owner, which repair or replacement shall be a condition precedent to Owner's obligation to make final payment under the Contract.

2. Contractor shall also be responsible for damage to any work covered by these specifications before final acceptance of the work. He shall securely cover all openings into the systems and cover all apparatus, equipment and appliances, both before and after being set in place to prevent obstructions on the pipes and the breakage, misuse or disfigurement of the apparatus, equipment or appliance.

3. All trenching or other work under the leaf canopy of any and all trees shall be done by hand or by other methods so that no branches are damaged in any way. Buildings, walks, walls, and other property shall be protected from damage. Open ditches left exposed shall be flagged and barricaded by the Contractor by approved means. The Contractor shall restore disturbed areas to their original condition.

4. The Contractor shall be responsible for requesting the proper utility company to stake the exact location of any underground lines including but not limited to electric, gas, telephone service, water, and cable.

The Contractor shall take whatever precautions are necessary to protect these underground lines from damage. In the event damage does occur, all damage shall be completely repaired to its original condition, at no additional cost to the Owner.

5. The Contractor shall request the Owner, in writing, to locate any private utilities (i.e., electrical service to outside lighting) before proceeding with any excavation. If, after such requests and necessary staking, private utilities which were not staked are encountered and damaged by the Contractor, they shall be repaired by the Owner at no cost to the Contractor. If the Contractor damages staked or located utilities, they shall be repaired at the Contractor's expense.

J. Codes and Inspections: The entire installation shall comply fully with all local and state laws and ordinances and with all established codes arrange for all necessary inspections and shall pay all fees and expenses in connection with same, as part of the work under this Contract. Upon completion of the work, he shall furnish to the "Owner" all inspection certificates customarily issued in connection with the class of work involved.

K. The Contractor shall keep on his work, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Owner, or Owner's representative.

L. The superintendent shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor.

M. The Owner's Landscape Architect or designated individual shall have full authority to approve or reject work performed by the Contractor. The Owner's Authorized Representative shall also have full authority to make field changes that are deemed necessary.

N. Final Acceptance: Final acceptance of the work may be obtained from the Owner upon the satisfactory completion of all work. Acceptance by the Landscape Architect and/or Owner in no way removes the Contractor of his responsibility to make further repairs, corrections and adjustments to eliminate any deficiencies which may later be discovered.

O. Guarantee: All work shall be guaranteed for one year from date of final acceptance against all defects in material, equipment and workmanship to the satisfaction of the Owner. Repairs, if required, shall be done promptly at no cost to the Owner.

1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or workmanship, to the satisfaction of the Owner. The Contractor shall not be responsible for work damaged by others. Repairs, if required, shall be done promptly. The guarantee shall state the name of the Owner, provide full guarantee terms, effective and termination date, name and license number of Contractor providing guarantee, address, and telephone number. It shall be signed by the chief executive of the Contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.

2. If, within ten (10) days after mailing of written notice by the Owner to the Contractor requesting repairs or replacement resulting from a breach of warranty, the Contractor shall neglect to make or undertake with due diligence to make the same, the Owner may make such repairs at the Contractor's expense; provided, however, that in the case of emergency where, in the judgment of the Owner, delay would cause serious loss or damage, repairs or replacement may be made without notice being sent to the Contractor, and Contractor shall pay the cost thereof.

P. The Contractor shall provide full, 100% irrigation coverage in all areas designed with proposed plantings, in accordance with the site's governing permitting requirements and as designed.

Q. On-site Observation: At any time during the installation of the irrigation system by the Contractor, the Owner or Landscape Architect may visit the site to observe work underway. Upon request, the Contractor shall be required to uncover specified work as directed by the Owner or material, workmanship or method of installation not meet the standards specified herein, the Contractor shall replace the work at his own expense.

R. Workmanship: All work shall be installed by qualified, skilled personnel, proficient in the trades required, in a neat, orderly, and responsible manner with recognized standards of workmanship. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.04 SUBMITTALS

All materials shall be those specified and/or approved by the Landscape Architect.

A. Product Data: After the award of the Contract and prior to beginning work, the Contractor shall submit for approval by the Owner and Landscape Architect, two copies of the complete list of materials, manufacturer's technical data, and installation instructions which he proposes to install.

B. Commence no work before approval of material list and descriptive material by the Landscape Architect.

C. Record Drawings: The Contractor shall record on reproducible, all changes that may be made during actual installation of the system. Provide controller sequencing and control valve locations.

1. Immediately upon installation of any piping, valves, wiring, sprinklers, etc., in locations other than shown on the original drawings or of sizes other than indicated, the Contractor shall clearly indicate such changes on a set of blue-line prints. Records shall be made on a daily basis. All records shall be neat and subject to the approval of the Owner.

2. The Contractor shall also indicate on the record prints the location of all wire splices, original or due to repair, that are installed underground in a location other than the controller pedestal, remote control valve box, power source or connection to a valve-in-head sprinkler.

3. These drawings shall also serve as work progress sheets. The Contractor shall make neat and legible notations thereon daily as the work proceeds, showing the work as actually installed. These drawings shall be available at all times for review and shall be kept in a location designated by the Owner's Representative.

4. Progress payment request and record drawing information must be approved by Landscape Architect before payment is made.

5. If in the opinion of the Owner or his representative, the record drawing information is not being properly or promptly recorded, construction payment may be stopped until the proper information has been recorded and submitted.

6. Before the date of the final site observation and approval, the Contractor shall deliver one set (copies) of reproducible record drawing plans and notes to the Landscape Architect. Record drawing information shall be approved by the Landscape Architect prior to submittal to Owner for final payments, including retentions.

W. Operations and Maintenance Manuals: The Contractor shall prepare and deliver to the Owner, or his designated representative within ten (10) calendar days prior to completion of construction, a hard cover binder with three rings containing the following information:

1. Index sheet stating the Contractor's address and business telephone number, list of equipment with name(2) and address(es) of local manufacturer's representative(s).

2. Catalog and parts sheets on every material and equipment installed under this Contract.

3. Complete operating and maintenance instruction on all major equipment. Include initial controller schedule and recommended schedule after establishment period.

4. Demonstrate to and provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Owner, or his designated representative at the conclusion of the project that this service has been rendered.

1.05 EXPLANATION OF DRAWINGS

A. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings and sleeves which may be required. The Contractor shall carefully investigate the structural and finished conditions affecting all of the work and plan his work accordingly, furnishing such offsets, fittings and sleeves as may be required to meet such conditions.

B. The drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, planting and architectural features. Deviations shall be brought to the Landscape Architects attention.

C. All work called for a on the drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the specifications.

D. The Contractor shall not willfully install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or discrepancies in area dimensions exist that might not have been known in engineering. Such obstructions or differences should be brought to the attention of the Landscape Architect. In the event that notification is not performed, the Contractor shall assume full responsibility for any revision necessary.

E. If, in the opinion of the Landscape Architect, the labor furnished by the Contractor is incompetent, unskilled, or unreliable, his equipment inadequate, improper or unsafe, or if the Contractor shall fail to continuously and diligently execute the construction, the Landscape Architect or Owner shall, in writing, instruct the Contractor to remove all such causes of noncompliance and the Contractor shall promptly comply.

F. The Contractor shall be responsible for full and complete coverage of all irrigation areas. The Landscape Architect shall be notified of any necessary adjustments at no additional cost to the Owner. Any revisions to the irrigation system must be submitted and answered in written form, along with any change in Contract price. Layout may be modified, if necessary to obtain coverage. Spacing not to exceed 60% of the diameter.

PART II: PRODUCTS

2.01 MATERIALS

Material and equipment shall be supplied by the Contractor. No substitutions shall be allowed without the prior written approval of the Owner/Landscape Architect. The Contractor shall inspect all materials and equipment prior to installation, and defective materials shall be replaced with the proper materials and equipment. Those items used in the installation found to be defective, improperly installed or not as specified, shall be removed and the proper materials and equipment installed in the proper manner, as interpreted by the Owner/Landscape Architect. The Contractor shall remove all damaged and defective pipe and equipment from the site.

2.02 PIPING

A. General Provisions: All materials throughout the system shall be new and in perfect condition unless otherwise directed by the Landscape Architect.

B. Polyvinyl Chloride Pipe (PVC): (Where indicated on plan, use non-potable purple piping.)

1. Laterals: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220. All lateral piping less than 3" in diameter shall be Class 200 SDR-21.

2. Main Line Under Pressure: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220, Schedule 40 with belled end for solvent weld connection.

- 3. Pipe Markings: All PVC pipe shall bear the following markings:
o Manufacturer's Name
o Nominal Pipe Size
o Schedule or Class
o Pressure Rating of PSI
o NSF (National Sanitation Foundation) Approval
o Date of Extrusion

2.04 PVC JOINTS

Joints in PVC pipe smaller than 3" shall be solvent welded in accordance with the recommendations of the pipe manufacturer; the solvent cleaner and welding compound furnished with the pipe.

2.05 THREADED CONNECTIONS

A. Threaded PVC connections shall be made up using Teflon tape only.

B. Connection between mainline pipe fittings and automatic or manual control valves shall be made using Schedule 80 threaded fittings and nipples.

2.06 SOLVENT CEMENT

A. General: Provide solvent cement and primer for PVC solvent weld pipe and fittings recommended by the manufacturer. Pipe joints for solvent weld pipe to be belled end. Pipe joints for gasketed pipe to be intricate ring type. Insert gaskets will not be accepted.

B. Thrust Blocks: Main line piping 3" or greater in diameter shall have thrust blocks sized and placed in accordance with the pipe manufacturer's recommendations or, in the absence of specified recommendations by the pipe manufacturer, 3000 PSI concrete thrusts shall be properly installed at tees, elbows, 45's, crosses, reducers, plugs, caps and valves.

2.07 PIPE AND WIRE SLEEVES

A. Sleeves to be installed:

1. The Contractor shall install irrigation system pipe and wire sleeves conforming to the following:

a. All pipe sleeves shall extend a minimum of 36" beyond the edges of pavement.

b. All pipe sleeves to be installed beneath future/existing road surfaces shall be PVC pipe Schedule 40 or jack and bore steel pipe as per FDOT specifications, and as shown on plans.

c. All irrigation system wires shall be sleeved separately from main or lateral lines.

d. All pipe sleeves shall be installed at the minimum depth specified for main lines, lateral lines, and electric wire.

e. Contractor shall coordinate all pipe sleeve locations and depths prior to initiating installation of the irrigation system.

2.08 SPRINKLER HEADS

A. Spray Sprinklers: The sprinkler shall be a fixed spray type designed for in-ground installation. The nozzle shall elevate 6" (or as designated on plan) when in operation. The body of the sprinkler shall be constructed of non-corrosive heavy duty Cycolac. A filter screen shall be in the nozzle piston. All sprinkler parts shall be removable through the tip of the unit by removal of a threaded cap.

Riser mounted spray shall be as indicated on the plans. The sprinkler shall consist of a nozzle and body. The body of the riser-mount sprinkler shall be constructed of non-corrosive materials. A cone strainer shall be a separate part with the nozzle assembly to allow for easy flushing of the sprinkler. Maximum working pressure at the base of the sprinkler shall be 40 PSI.

(continued...)

Table with columns: No., REVISIONS, DATE, BY.

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Professional information table: KHA PROJECT 043645000, DATE 02/02/2015, SCALE AS SHOWN, DESIGNED BY JONATHAN D. HAIGH, DRAWN BY, CHECKED BY JDH, LICENSED PROFESSIONAL, JONATHAN D. HAIGH, FLORIDA LICENSE NUMBER LA 6666795, DATE: 02/02/2015.

IRRIGATION NOTES

OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH BROWARD COUNTY FLORIDA

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Release of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

2.09 AUTOMATIC CONTROL VALVE

The automatic remote control valves shall be as specified on the plans, or approved equal.

2.10 GATE VALVES

- A. Gate valves for 3/4" through 2-1/2" shall be of brass or bronze construction, solid wedge, IPS threads, non-rising stem with wheel operating handle, for a continuous working pressure of 150 PSI.
B. Gate valves for 3" and larger: Iron body, brass or bronze mounted ANWA gate valves, with a clear waterway equal to the full nominal diameter of the valve, rubber gasket for a continuous working pressure of 150p PSI. Valve shall be equipped with a square operating nut.

2.11 VALVE BOXES

- A. For gate valves, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.
B. For control valves 3/4" through 2", the drip valve assemblies, use AMETEK #10-181-014 box with #10-181-015 locking lid, or sized as necessary to effectively house the equipment
C. For control wiring splices, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.

2.12 IRRIGATION WIRING

- A. Wiring used for connecting the electric control valves to the controllers shall be Type UF, 600 volt, single strand, solid copper with PVC insulation 4/64" thick. Size shall be 14 gauge, red for "hot" or lead wires, and common wire to be 14 gauge, white in color.
B. Contractor shall perform an ohm test on ground to assure adequate protection against surges and indirect lightning strikes.

2.13 MISCELLANEOUS MATERIALS

- A. Drainage Backfill: Cleaned gravel or crushed stone, graded from 1" maximum to 3/4" minimum.
B. Metalized Underground Tape: The detectable, underground utility marking tape shall consist of a minimum: 5 mil (0.005") overall thickness; five-ply composition; ultra-high molecular weight, 100% virgin polyethylene; acid, alkaline and corrosion resistant; with no less than 150 pounds of tensile break strength per 6" width; color-code impregnated with color stable, lead-free, organic pigments suitable for direct burial. Tapes utilizing reprocessed plastics or resins shall not be acceptable. The detectable, underground utility marking tape shall have a 35 gauge (0.0035") solid aluminum foil, core encapsulated within a 2.55 mil (0.00255") polyethylene backing and a 0.6 mil (0.006") PET cover coating. The laminate on each side shall consist of a 0.75 mil (0.00075") layer of hot LPDE, poly-fusing the "sandwich" without use of adhesives.

2.14 AUTOMATIC CONTROL SYSTEM

An Independent Station Controller: Furnish a solid state controller, as specified on the plans. Each station shall be capable of timing from zero (0) minute to 99 minutes per station in one (1) minute increments.

Each station shall be capable of operating two (2) TVA electric valve-in-head solenoids.

The stand-alone controller shall have two (2) possible programs.

The stand-alone controller shall provide global percentage increase/decrease (water budget) for all stations simultaneously, from ten (10) to two hundred (200) percent, in ten (10) percent increments.

All stations shall be able to be turned on/off manually buy operating timing mechanism or by manual switch at station output.

The stand-alone controller shall incorporate an integral MOV surge protection into the terminal block for each of its 24 VAC field wire outputs. Controller power input wires will also incorporate surge protection.

The control panel shall provide continuous display time. It shall have alphanumeric displays of descriptive English menus and legend identifiers with cursor selection of function and precision value adjustment by rotary dial input.

The stand-alone controller shall be UL listed and FCC approved.

The stand-alone controller shall have 117 VAC, 60 Hz input, 26.5 VAC, 60 Hz output for operating 24 VAC solenoids.

The stand-alone controller cabinet shall be a lockable and weather-resistant outdoor cabinet. Mount as noted on plans.

The controller shall be equipped with lightning protection, by the Contractor, on both the primary (120v) and each secondary (24v) circuit. The controller circuits shall be grounded to a copper clad grounding rod located at each controller.

The controller shall be equipped for a water conservation device, as specified.

PART III: EXECUTION

3.01 INSPECTION

The Contractor shall examine the areas and conditions under which landscape irrigation system is to be installed and notify the Landscape Architect in writing of conditions detrimental to the proper and timely completion of the work. The Contractor shall proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect.

3.02 PREPARATION

The Contractor shall provide sleeves to accommodate piping under walks or paving. The Contractor shall coordinate with other trades and install to accurate levels prior to paving work. Cutting and patching of paving and concrete will not be permitted. The Contractor shall maintain all warning signs, shoring, barricades, flares and red lanterns, as required by any local codes, ordinances or permits.

3.03 TRENCHING AND BACKFILLING

- A. Excavation: The Contractor shall stake out the location of each run of pipe, sprinkler heads, sprinkler valves and isolation valves prior to trenching. Excavation shall be open vertical construction sufficiently wide to provide free working space around the work installed and to provide ample space or backfilling and tamping. Trenches for pipe shall be cut to required grade lines, and compacted to provide accurate grade and uniform bearing for the full length of the line. The bottom of the trenches shall be free of rock or other sharp edged objects. Minimum cover shall be as follows:
Pipe and Wire Depth
Pressure Mainline 18" at top of pipe from Finish Grade
Lateral Piping (rotor) 12" at top of pipe from Finish Grade
Lateral Piping (pop-up) 12" at top of pipe from Finish Grade
Control Wiring Side of main Line

Pipe and Wire Depth

Table with 2 columns: Pipe/Wire Type and Depth. Includes Pressure Mainline (18" at top of pipe from Finish Grade), Lateral Piping (rotor) (12" at top of pipe from Finish Grade), Lateral Piping (pop-up) (12" at top of pipe from Finish Grade), and Control Wiring (Side of main Line).

- B. Minimum Clearances: All pipelines shall have a minimum clearance of six inches from each other and from lines of other crafts. Parallel lines shall not be installed directly over one another. No lateral line shall be installed in the main-line trench.

3.04 INSTALLATION OF PIPING

- A. PVC Pipe and Joints: The Contractor shall not install solvent wild pipe when air temperature is below 40° F. Installation shall be in accordance with the manufacturer's instructions.

- 1. Only the solvent recommended by the pipe manufacturer shall be used. All PVC pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer, and it shall be the Contractor's full responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

3.05 BACKFILLING PROCEDURES

Initial backfill on PVC lines shall be pulverized native soil, free of foreign matter. Within radius of 4" of the pipe shall be clean soil or sand. Plant locations shall take precedence over sprinkler and pipe locations. The Contractor shall coordinate the location of trees and shrubs with the routing of lines and final head locations.

- A. Backfill and Compaction: The Contractor shall leave trenches slightly mounded to allow for settlement after the backfilling is completed. The Contractor shall clean the site of the work continuously of excess waste materials as the backfilling progresses, and leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Protect open trenches as required.

The Contractor shall carefully backfill excavated materials approved for backfilling, consisting of earth, loam, sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soil without dips, sunken areas, or irregularities.

The Contractor shall conform to DOT requirements for methods and required compaction percentages, for roads and paving.

The Contractor shall hand place the first 6" of backfill (or to top of pipe) and have it walked on so as to secure the position of the pipe and wire.

No wheel rolling will be allowed. The Contractor shall remove rock or debris extracted from backfill materials and dispose of offsite. The Contractor shall fill any voids left in backfill with approved backfill materials.

- B. Existing Lawns: Where trenching is required across existing lawns, uniformly cut strips of sod 6" wider than trench. The Contractor shall remove sod in rolls of suitable size for handling and keep moistened until replanted. The Contractor shall replant sod within 48 hours after removal, roll and water generously. The Contractor shall resod any areas not in healthy condition equal to adjoining lawns 10 days after replanting.

- C. Seeded Area: Trenching will be required across existing seeded areas, primarily roadway edging. The Contractor shall conform to the requirements of seeding, Section 02930 for the reseeding of the disturbed trench area.

- D. Pavements: Jack and bore or directional bore piping under paving materials as per local regulatory codes. No cutting and patching of pavement will be permitted.

3.06 VALVES

- A. Isolation Valves: Shall be sized corresponding to adjacent pipe size. Specified valve boxes shall be installed flush with finish grade in such a manner that surface forces applied to their exposed area will not be transmitted to the piping in which the valve is installed nor any other piping, wiring or other lines in the vicinity of said valves.

- B. Gate Valves: Install where shown, in valve boxes.

- C. Electric Control Valves: Shall be installed in specified valve boxes. The valve shall have 6" of 3/4" pea gravel installed below the bottom of the valve. If the valve box does not extend to the base of the valve, a valve box extension shall be installed. Electric control valves shall be installed where shown and grouped together where practical. The Contractor shall place no closer than 24" to walk edges, bikeway edges, buildings and walls. The Contractor shall adjust the valve to provide flow rate or rated operating pressure required for each sprinkler circuit.

3.07 CONDUIT AND SLEEVES

- A. Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: The Contractor shall provide and install where necessary. Contractor shall coordinate locations of previously installed sleeving with the General Site Contractor.

The Contractor shall coordinate installation of sleeves with work of other disciplines.

3.08 CONTROLS

- A. The Contractor shall connect electric control valves to controllers in a clockwise sequence to correspond with station settings beginning with Stations 1, 2, 3, etc. Automatic controllers shall be provided and installed by the Contractor as noted on the drawings. All zones will be labeled on the controller.

- B. Controllers shall be equipped with lightning protection and grounded to a standard 5/8" copper clad steel ground rod driven a minimum of 8' into the ground and clamped.

- C. The electrical service to the controllers shall be performed by an electrical subcontractor in compliance with NEC requirements.

3.09 CONTROL WIRE

- A. Control wiring between the controller and electric valves shall be buried in main line trenches or in separate trenches. Electrical connection at valve will allow for pigtail so solenoid can be removed from valve with sufficient slack to allow ends to be pulled 12" above ground for examination and cleaning.

- B. An expansion loop shall be provided at every valve at 100' o.c. Expansion loop shall be formed by wrapping wire at least eight times around a 3/4" pipe and withdrawing pipe.

- C. The wire shall be bundled and taped every ten feet. The wire shall be laid in the trench prior to installing the pipe being careful to install wire beneath and 6" to the side of the main pipe line.

- D. Electrical connections to electric control valves shall be made with Rainbird Pen-Tite or Techdel GT-3-GEL - Tite connectors or equal.

Power Connections: Electrical connections to power and signal wires shall be made using 3M 82-A2 power cable splice kits.

3.10 SPRINKLER HEADS

- A. General Provisions:

- 1. Sprinkler heads shall be installed as designated on the shop drawings. Heads shall be installed on flexible PVC. Top to be flush with finish grade or top of curb.

- 2. Spacing of heads shall not exceed the maximum indicated on the shop drawings (unless directed by the Landscape Architect). In no case shall the spacing exceed the maximum recommended by the manufacturer.

- B. Head Types:

- 1. Pop-up- Rotary Sprinkler Heads: Shall be installed on flex joint and be set with top of head flush with finish grade. Heads installed at curb shall have 6" to 10" between perimeter of head and concrete. Heads placed at edge of pavement having no curb shall be installed 24" from edge of pavement.

- 2. Spray Pop-up Sprinkler Heads: Shall be installed on flexible PVC and be set with top of head flush with finished grade. Sprinkler heads placed adjacent to curbs will be installed 9" from concrete. Sprinkler heads placed adjacent to pavement having no curb shall be installed 24" from the edge of pavement.

3.11 COMPLETION

- A. Flushing: Before sprinkler heads are set, the Contractor shall flush the lines thoroughly to make sure there is no foreign matter in the lines.

The Contractor shall flush the main lines from dead end fittings for a minimum of five minutes under a full head of pressure.

- B. Testing: The Contractor shall notify Landscape Architect and Owner forty-eight (48) hours in advance of testing.

Prior to backfilling of main line fittings, Contractor shall fill the main line piping with water, in the presence of the Owner/Landscape Architect, taking care to purge the air from it by operating all the sprinkler control valves one or more times and/or such other means as may be necessary. A small, high pressure pump or other means of maintaining a continuous water supply shall be connected to the main line and set so as to maintain 100 PSI in the main line system for two (2) hours without interruption. When this has been accomplished and while the pressure in the system is still 100 PSI, leakage testing shall be performed in accordance with ANWA Standard C-600. Pressure readings shall be noted and make up water usage shall be recorded. Should the rate of make up water usage indicate significant leakage, the source of such leakage shall be found and corrected and the system then retested until the Owner/Landscape Architect is satisfied that the system is reasonably sound. Lateral line testing shall be conducted during the operating testing of the system by checking visually the ground surface until no leaks in this portion of the system are evident. Leaks shall be repaired or paid for by the Contractor at any time they appear during the warranty period.

- C. Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. The Contractor shall balance and adjust the various components of the system so that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

3.12 WARRANTY

- A. The Contractor shall fully warrant the landscape irrigation system for a period of one (1) year after the written final acceptance and will receive a written confirmation from the Landscape Architect that the warranty period is in effect.

- B. During the warranty period, the Contractor will enforce all manufacturer's and supplier's warranties as if made by the Contractor himself. Any malfunctions, deficiencies, breaks, damages, disrepair, or other disorder due to materials, workmanship, or installation by the Contractor and his suppliers shall be immediately and properly corrected to the proper order as directed by the Owner and/or Landscape Architect.

- C. Any damages caused by system malfunction shall be the responsibility of the Contractor who shall make full and immediate restoration for said damages.

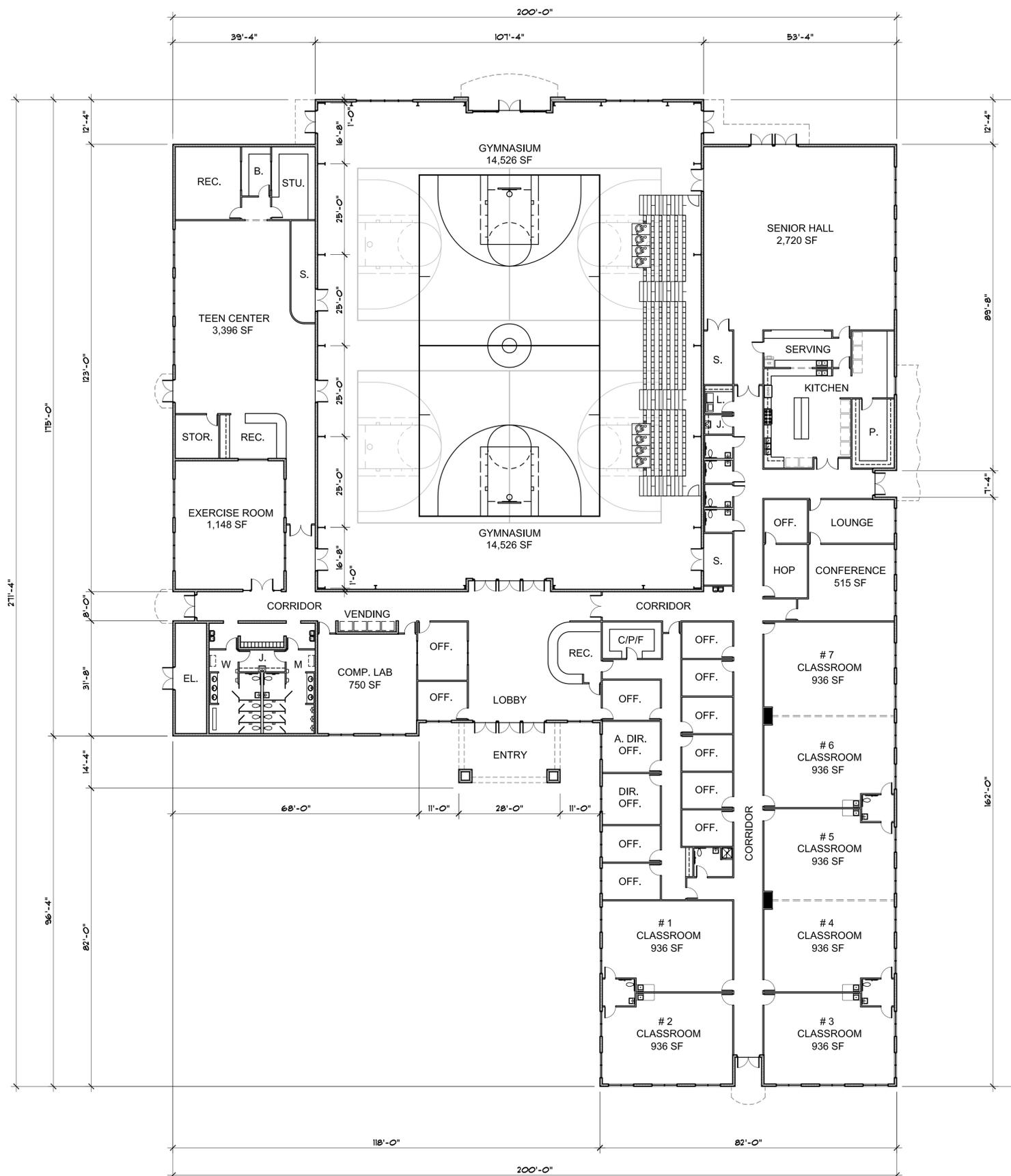
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Licensed Professional information: JONATHAN D. HAIGH, FLORIDA LICENSE NUMBER LA 6666795, DATE: 02/02/2015

IRRIGATION NOTES

OB JOHNSON PARK PREPARED FOR CITY OF HALLANDALE BEACH FLORIDA BROWARD COUNTY



MASTER FLOOR PLAN
41,984 SQ. FT. FACILITY

1/16" = 1'-0"

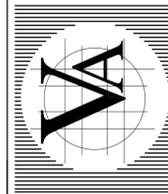
REVISIONS:

HALLANDALE BEACH
O.B. JOHNSON PARK
900 NW 8th AVENUE
HALLANDALE BEACH, FLORIDA

Corporation Licence #A40003268
Architectural Seal
JORGE L. VILLANOVENCIO
INC. AR0012110

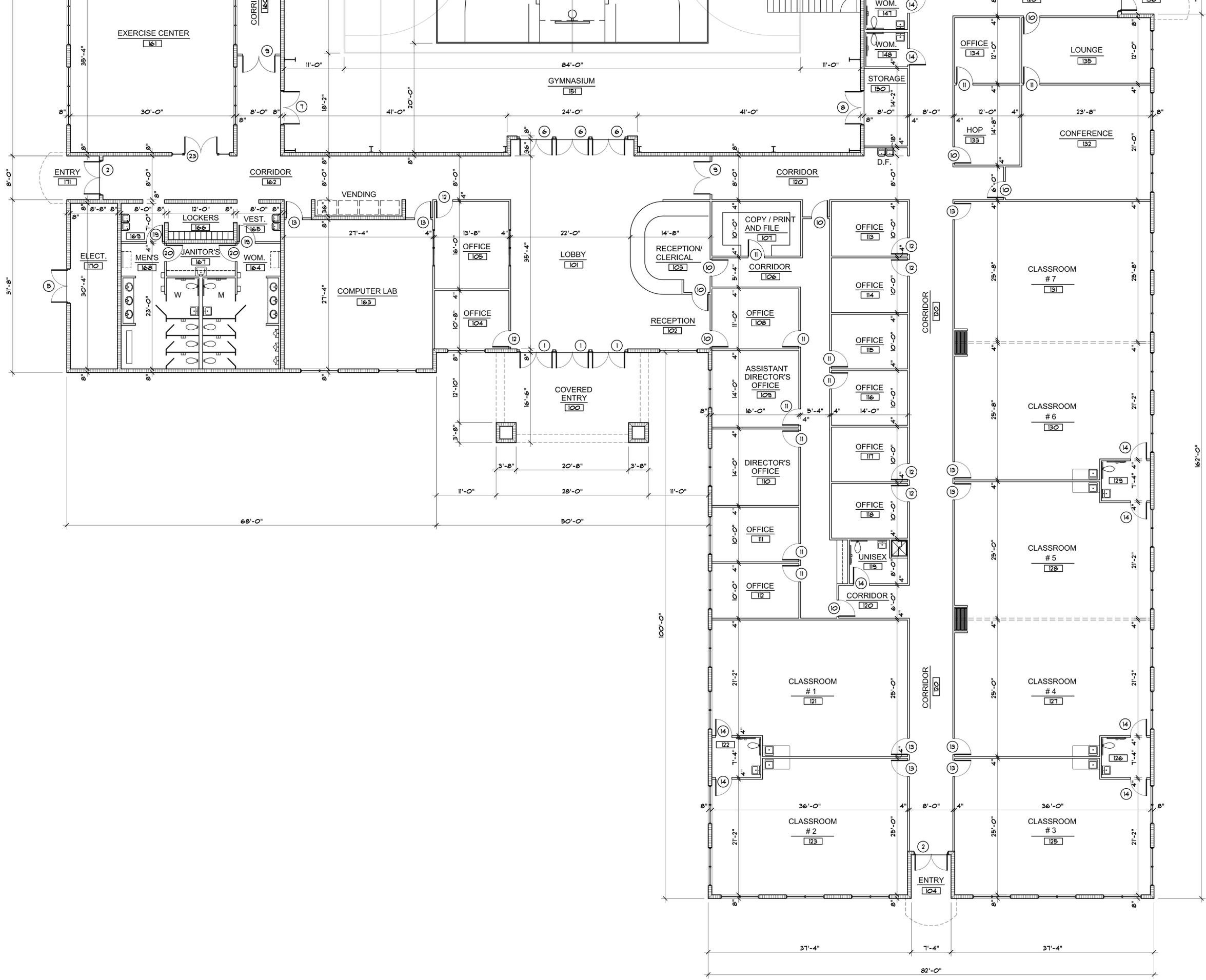
VILLA & ASSOCIATES INC.
ARCHITECTURE PLANNING INTERIOR DESIGN
7344 SW 48 STREET SUITE 201 MIAMI, FLORIDA 33155
TEL. 305-661-8181 FAX 305-661-8710 E-Mail Villa@kcl.net

CONSULTANT:



DATE: 01-30-15	SCALE: 1/16"
DRAWING NO: A-1 OF .	

60% PROGRESS SET
NOT FOR CONSTRUCTION



N
PARTIAL FLOOR PLAN 1/8" = 1'-0"

60% PROGRESS SET
NOT FOR CONSTRUCTION

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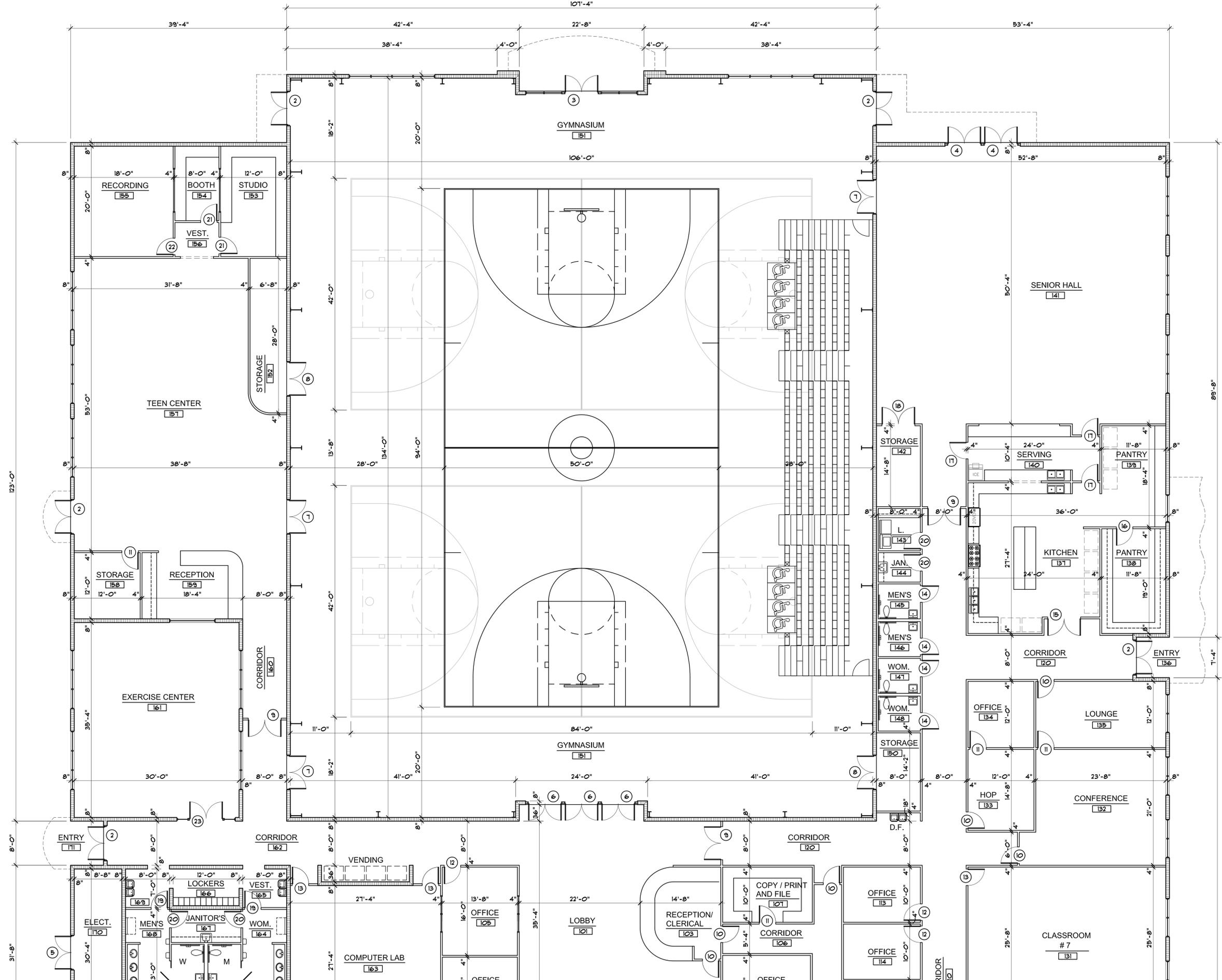
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CONSULTANT:



DATE: 01-30-15	SCALE: 1/8"
DRAWING NO: A-2 OF .	



PARTIAL FLOOR PLAN 1/8" = 1'-0"

60% PROGRESS SET
NOT FOR CONSTRUCTION

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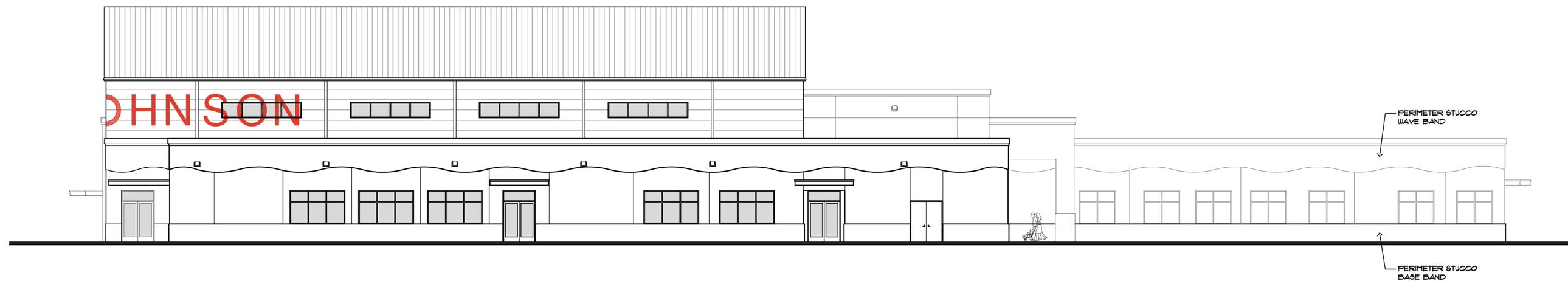


DATE: 01-30-15 SCALE: 1/8"

DRAWING NO: A-3 OF 3



FRONT ELEVATION - SOUTH 1" = 10"



SIDE ELEVATION - WEST 1" = 10"

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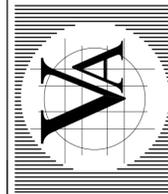
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 INC. AR0012110

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ARCHITECTURE PLANNING SUITE 201 MIAMI, FLORIDA 33155
 7344 SW 48 STREET TEL. 305-661-8181 FAX 305-661-8710 E-Mail Villa@kcl.net

CONSULTANT:

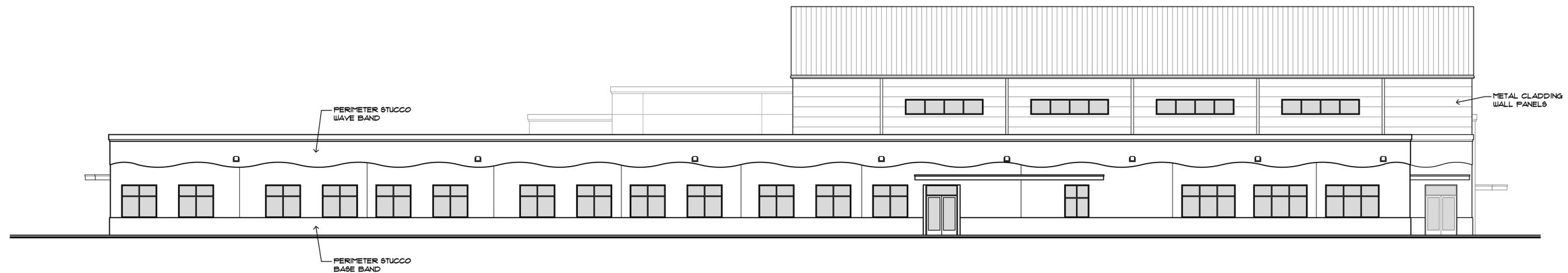


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01-30-15	1" = 10'
DRAWING NO.:	
A-4	OF .

60% PROGRESS SET
 NOT FOR CONSTRUCTION



REAR ELEVATION - NORTH 1" = 10"



SIDE ELEVATION - EAST 1" = 10"

REVISIONS:	

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O.B. JOHNSON PARK
 900 NW 8th AVENUE
 HALLANDALE BEACH, FLORIDA



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 #AA0003268
 Architectural Seal

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 INC. AR0012110

VILLA & ASSOCIATES INC.
 INTERIOR DESIGN

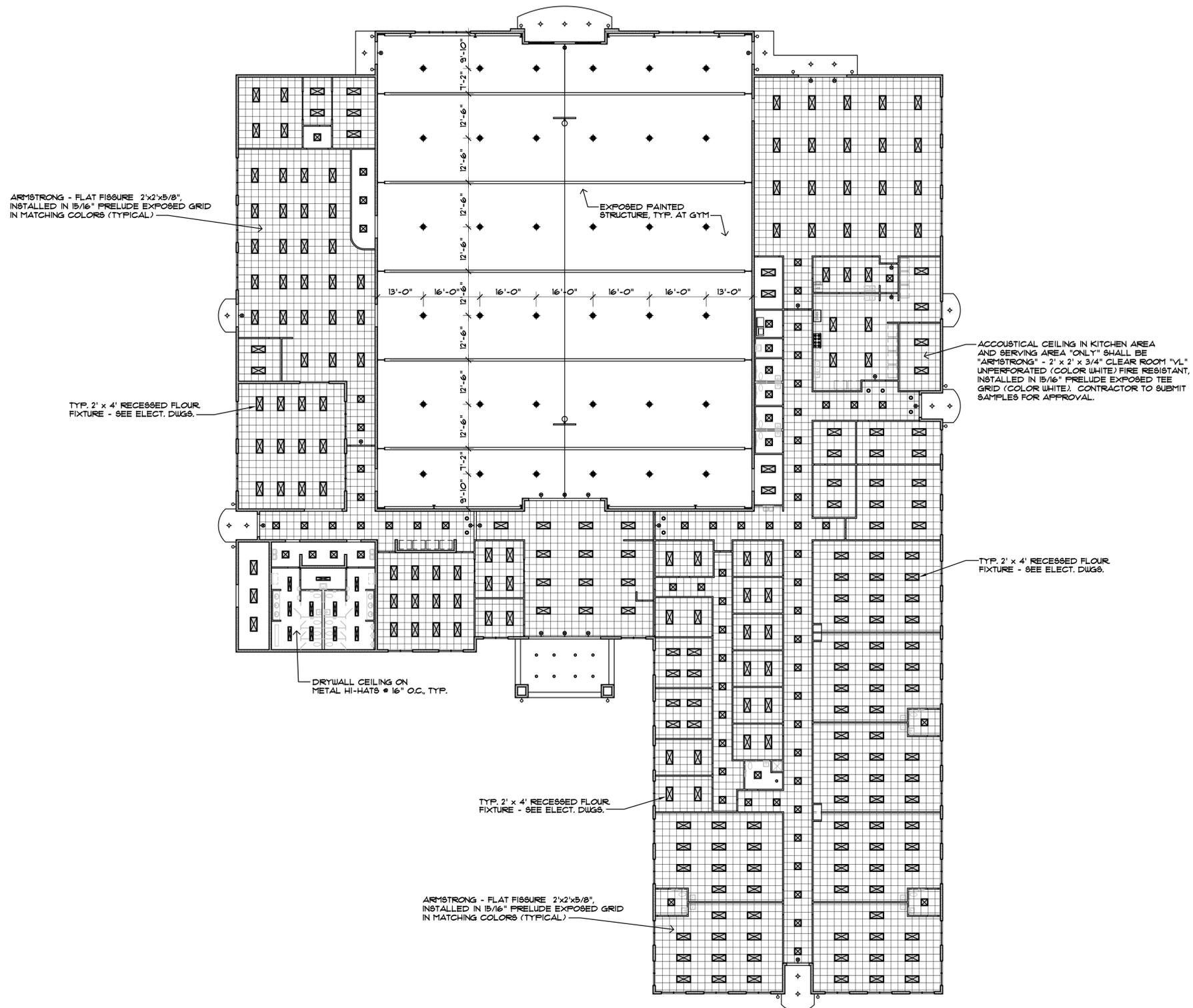
ARCHITECTURE PLANNING SUITE 201 MIAMI, FLORIDA 33155
 7344 SW 48 STREET TEL. 305-661-8181 FAX 305-661-8710 E-Mail Villa@kcl.net

CONSULTANT:



DATE: 01-30-15	SCALE: 1" = 10'
DRAWING NO: A-5 OF .	

60% PROGRESS SET
 NOT FOR CONSTRUCTION



ARMSTRONG - FLAT FIGURE 2'x2'x5/8"
 INSTALLED IN 15/16" PRELUDE EXPOSED GRID
 IN MATCHING COLORS (TYPICAL)

TYP. 2' x 4' RECESSED FLOOR
 FIXTURE - SEE ELECT. DWGS.

DRYWALL CEILING ON
 METAL HI-HATS @ 16" O.C. TYP.

TYP. 2' x 4' RECESSED FLOOR
 FIXTURE - SEE ELECT. DWGS.

ARMSTRONG - FLAT FIGURE 2'x2'x5/8"
 INSTALLED IN 15/16" PRELUDE EXPOSED GRID
 IN MATCHING COLORS (TYPICAL)

EXPOSED PAINTED
 STRUCTURE, TYP. AT GYM

ACOUSTICAL CEILING IN KITCHEN AREA
 AND SERVING AREA "ONLY" SHALL BE
 "ARMSTRONG" - 2' x 2' x 3/4" CLEAR ROOM "VL"
 UNPERFORATED (COLOR WHITE) FIRE RESISTANT,
 INSTALLED IN 15/16" PRELUDE EXPOSED TEE
 GRID (COLOR WHITE). CONTRACTOR TO SUBMIT
 SAMPLES FOR APPROVAL.

TYP. 2' x 4' RECESSED FLOOR
 FIXTURE - SEE ELECT. DWGS.

TYPICAL CEILING NOTE:
 ARMSTRONG - FLAT FIGURE 2'x2'x5/8"
 INSTALLED IN 15/16" PRELUDE EXPOSED GRID
 IN MATCHING COLORS (TYPICAL).



MASTER CEILING PLAN

1/16" = 1'-0"

- NOTES:
 1. SEE FINISH SCHEDULE FOR CEILING HEIGHTS.
 2. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURES.
 3. PROVIDE STUCCO EXPANSION JOINTS AS INDICATED ON PLAN.

REVISIONS:	

HALLANDALE BEACH
 O.B. JOHNSON PARK
 900 NW 8th AVENUE
 HALLANDALE BEACH, FLORIDA



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 JORGE L VILLAVENCENO
 INC. AR0012110

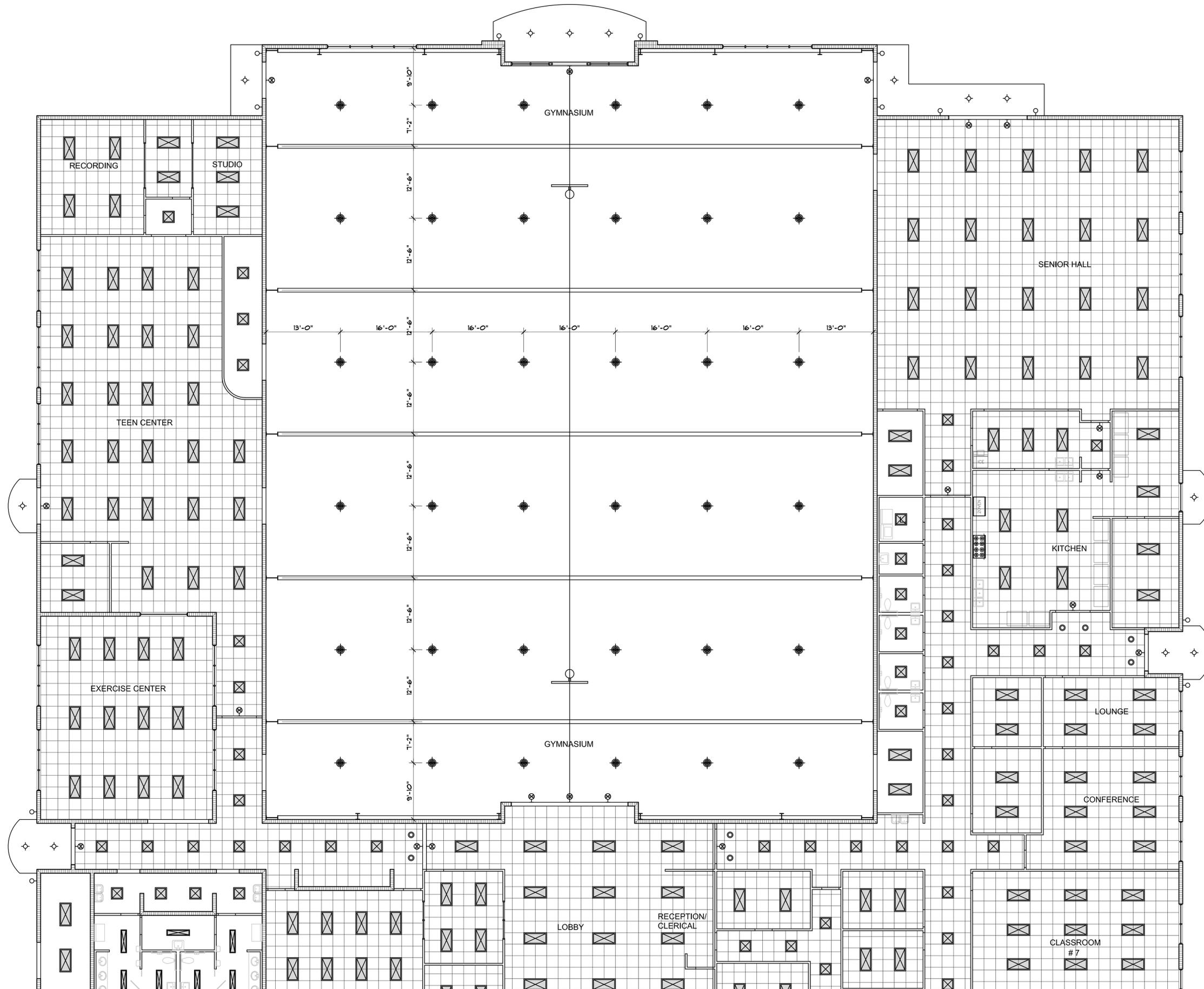
VILLA & ASSOCIATES INC.
 ARCHITECTURE PLANNING INTERIOR DESIGN
 7344 SW 48 STREET SUITE 201 MIAMI, FLORIDA 33155
 TEL. 305-661-8181 FAX 305-661-8710 E-Mail Villa@kcl.net
 CONSULTANT:



DATE: 01-30-15 SCALE: 1/16"

DRAWING NO: A-6 OF .

60% PROGRESS SET
 NOT FOR CONSTRUCTION




PARTIAL CEILING PLAN $\frac{1}{8}'' = 1'-0''$

60% PROGRESS SET
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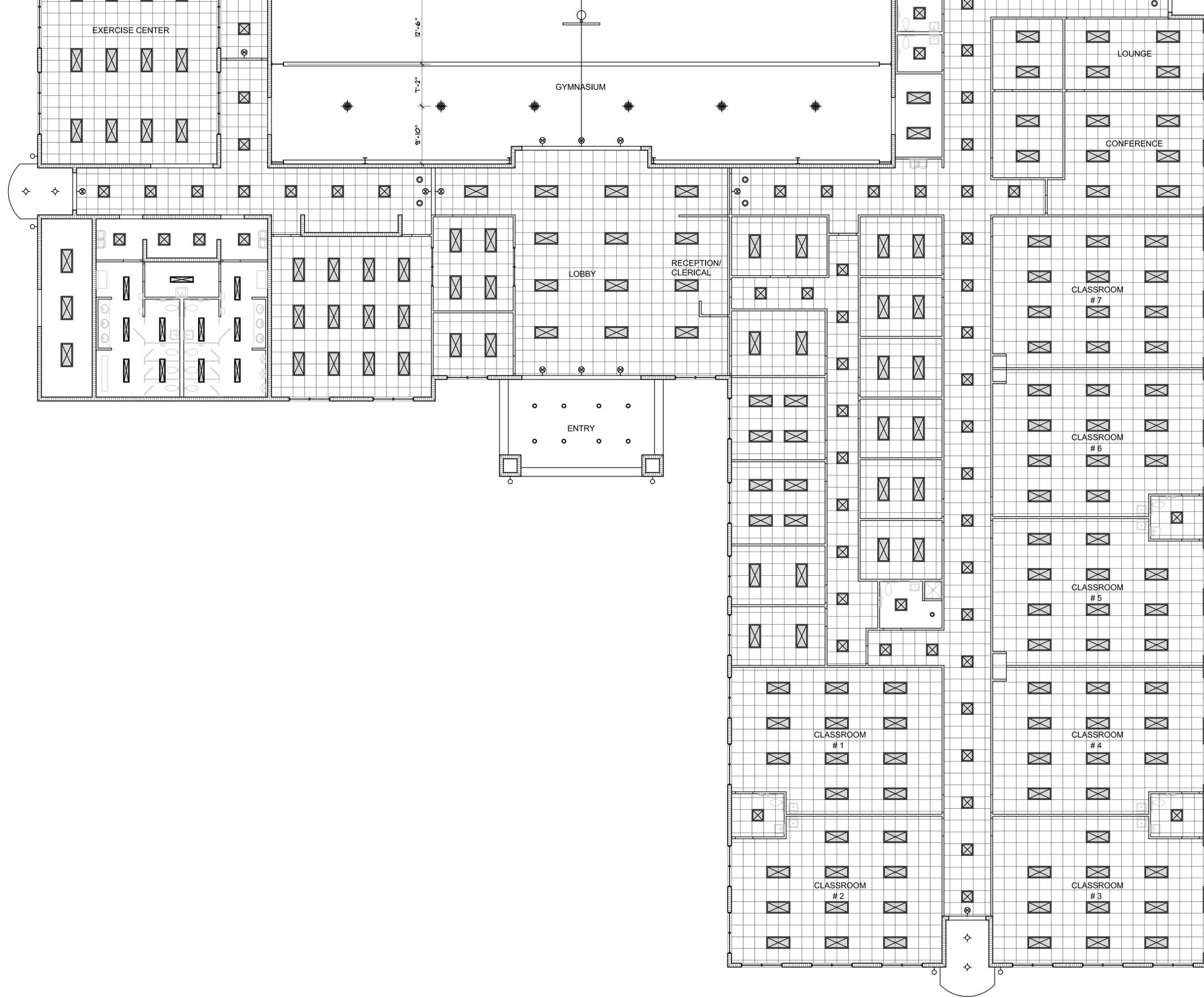
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CONSULTANT:



DATE: 01-30-15	SCALE: 1/8"
DRAWING NO: A-7 OF 	



N
PARTIAL FLOOR PLAN 1/8" = 1'-0"

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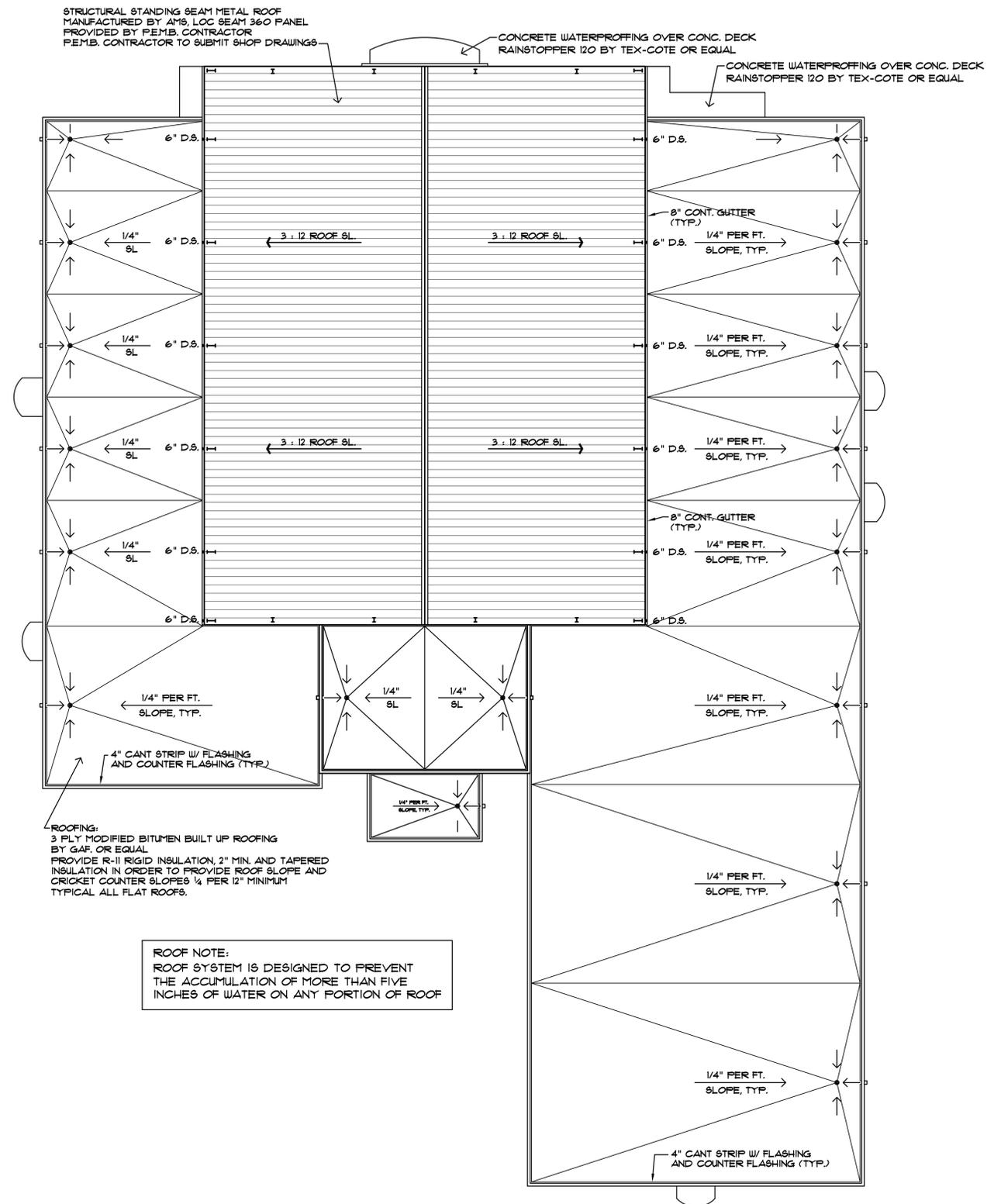
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CONSULTANT :



DATE: 01-30-15	SCALE: 1/8"
DRAWING NO: A-8 OF .	



STRUCTURAL STANDING SEAM METAL ROOF
 MANUFACTURED BY AMS, LOC SEAM 360 PANEL
 PROVIDED BY P.E.M.B. CONTRACTOR
 P.E.M.B. CONTRACTOR TO SUBMIT SHOP DRAWINGS

CONCRETE WATERPROFFING OVER CONC. DECK
 RAINSTOPPER 120 BY TEX-COTE OR EQUAL

CONCRETE WATERPROFFING OVER CONC. DECK
 RAINSTOPPER 120 BY TEX-COTE OR EQUAL

ROOFING:
 3 PLY MODIFIED BITUMEN BUILT UP ROOFING
 BY GAF, OR EQUAL
 PROVIDE R-11 RIGID INSULATION, 2" MIN. AND TAPERED
 INSULATION IN ORDER TO PROVIDE ROOF SLOPE AND
 CRICKET COUNTER SLOPES 1/4 PER 12" MINIMUM
 TYPICAL ALL FLAT ROOFS.

ROOF NOTE:
 ROOF SYSTEM IS DESIGNED TO PREVENT
 THE ACCUMULATION OF MORE THAN FIVE
 INCHES OF WATER ON ANY PORTION OF ROOF



MASTER ROOF PLAN 1/16" = 1'-0"

- NOTES:
 1. SEE SHEETS A-10 AND A-11 FOR ROOF PLANS AT 1/8" = 1'-0" SCALE.
 2. SEE PLUMBING DRAWINGS FOR ROOF DRAINAGE TERMINATION.

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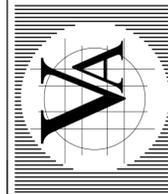
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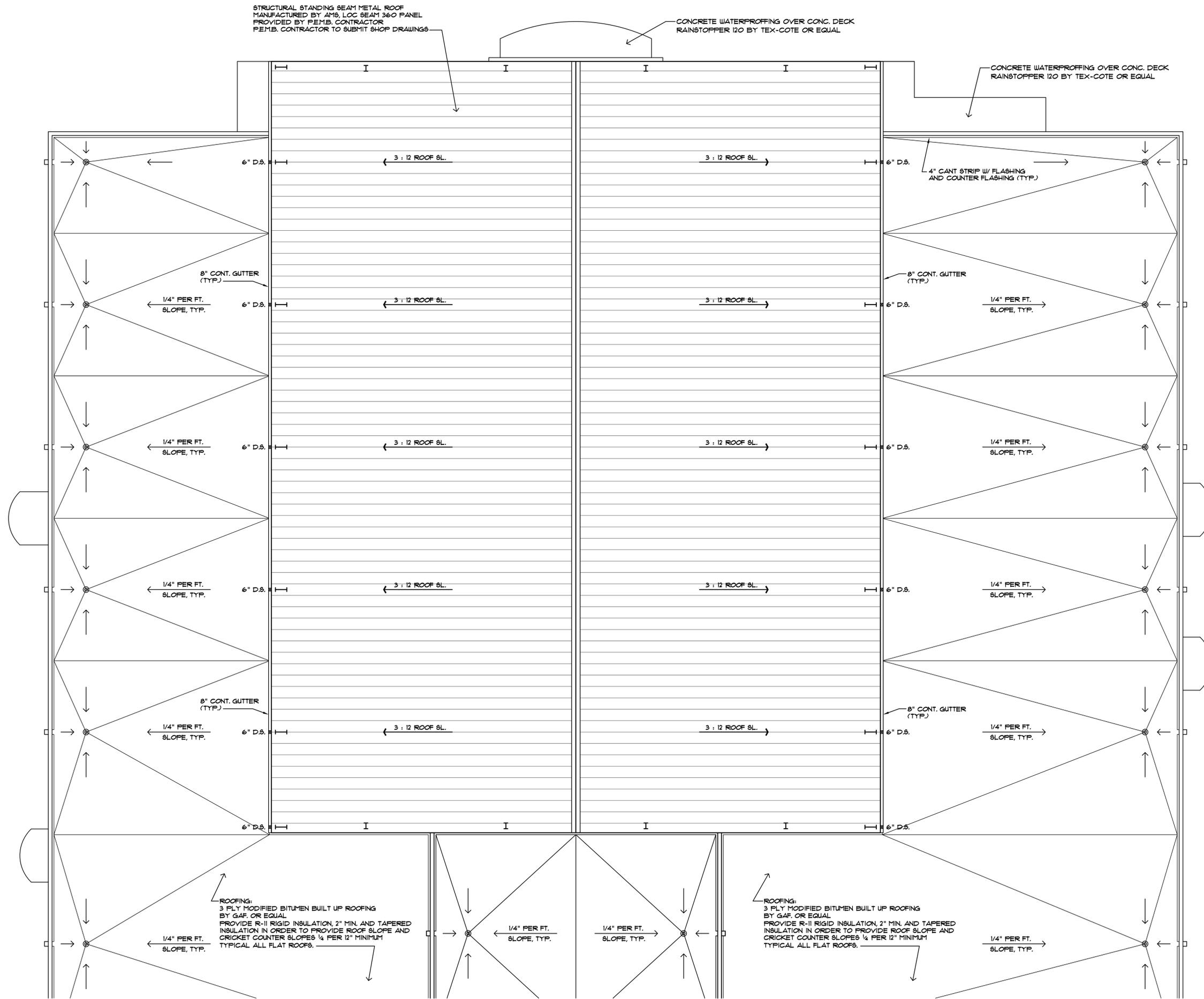
CONSULTANT:



DATE: 01-30-15 SCALE: 1/16"

DRAWING NO: A-9 OF .

60% PROGRESS SET
 NOT FOR CONSTRUCTION



STRUCTURAL STANDING SEAM METAL ROOF
 MANUFACTURED BY AMS, LOC SEAM 360 PANEL
 PROVIDED BY P.E.M.B. CONTRACTOR
 P.E.M.B. CONTRACTOR TO SUBMIT SHOP DRAWINGS

CONCRETE WATERPROFFING OVER CONC. DECK
 RAINSTOPPER 120 BY TEX-COTE OR EQUAL

CONCRETE WATERPROFFING OVER CONC. DECK
 RAINSTOPPER 120 BY TEX-COTE OR EQUAL

4" CANT STRIP W/ FLASHING
 AND COUNTER FLASHING (TYP.)

ROOFING:
 3 PLY MODIFIED BITUMEN BUILT UP ROOFING
 BY GAF, OR EQUAL
 PROVIDE R-11 RIGID INSULATION, 2" MIN. AND TAPERED
 INSULATION IN ORDER TO PROVIDE ROOF SLOPE AND
 CRICKET COUNTER SLOPES 1/4 PER 12" MINIMUM
 TYPICAL ALL FLAT ROOFS.

ROOFING:
 3 PLY MODIFIED BITUMEN BUILT UP ROOFING
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 PROVIDE R-11 RIGID INSULATION, 2" MIN. AND TAPERED
 INSULATION IN ORDER TO PROVIDE ROOF SLOPE AND
 CRICKET COUNTER SLOPES 1/4 PER 12" MINIMUM
 TYPICAL ALL FLAT ROOFS.

PARTIAL ROOF PLAN 1/8" = 1'-0"

60% PROGRESS SET
 NOT FOR CONSTRUCTION

REVISIONS:

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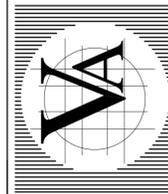
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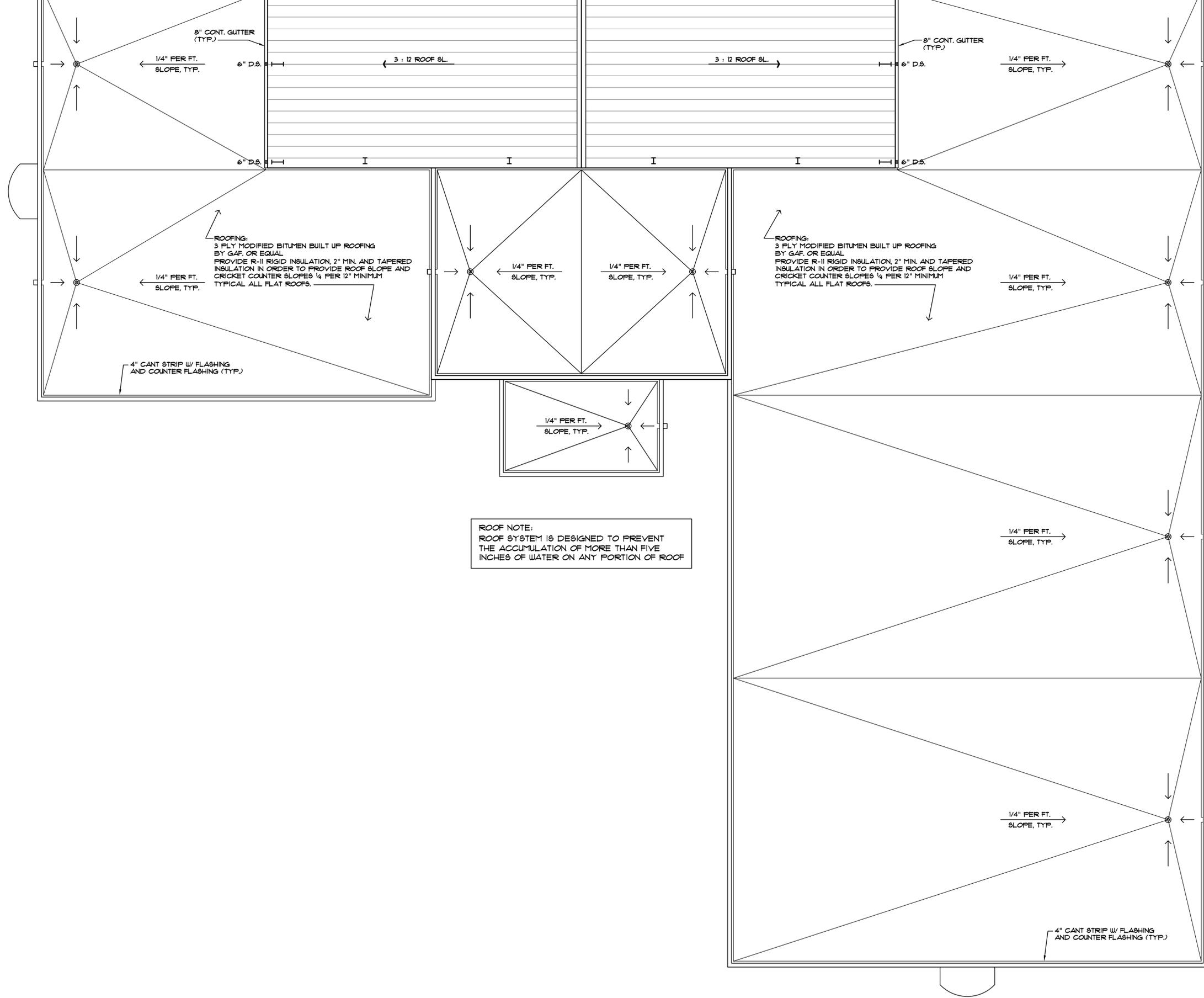
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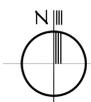
CONSULTANT:



DATE: 01-30-15	SCALE: 1/8"
DRAWING NO: A-10 OF .	



ROOF NOTE:
 ROOF SYSTEM IS DESIGNED TO PREVENT
 THE ACCUMULATION OF MORE THAN FIVE
 INCHES OF WATER ON ANY PORTION OF ROOF



PARTIAL ROOF PLAN 1/8" = 1'-0"

60% PROGRESS SET
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CONSULTANT:



DATE:	SCALE:
01-30-15	1/8"
DRAWING NO:	
A-11	OF .